PUBLIC HEALTH REPORTS

VOL. 38

JANUARY 19, 1923

No. 3

PASTEUR—AN APPRECIATION

AN ADDRESS MADE TO THE STAFF OF THE HYGIENIC LABORATORY AT THE CELE-BRATION OF THE ONE-HUNDREDTH ANNIVERSARY OF THE BIRTH OF PASTEUR.

By W. Mansfield Clark, Chief of Division of Chemistry, Hygienic Laboratory, United States Public Health Service.

To-day, December 27, 1922, we commemorate the one-hundredth anniversary of the birth of Pasteur.

Louis Pasteur's mother came of a long line of plebeian aristocracy, if we may coin the phrase, people noted for their industry, their intense family loyalty, and their sensitive nature. On the father's side we find a great grandfather who, born a serf, worked his way to the purchase of his freedom. The father, under Napoleon, fought his way to a Cross of the Legion of Honor, and, later, when ordered to surrender his sword to a policeman of the new régime, he fought for, and, in defiance of authority, retained the cherished blade.

Of such stuff was Louis Pasteur—fighter, indefatigable worker, intellectual independent, a lover of family and friend.

Pasteur's son-in-law, Vallery Radot, who has given us the above facts, has told of the boyhood and early education of this remarkable man. There is little about this period that is extraordinary. There were times when homesickness almost got the better of a destiny, and other times when the family purse could hardly stand the strain of modest educational requirements. But at last we find Louis, as a student in Paris, privileged to attend the public lectures of the great chemist, Dumas. There, in the halls of the Sorbonne, was born the chemist, Pasteur.

Now, by the very nature of things, no biographer can be specific about the events of thought; but we have some evidence that Pasteur found his own problem for himself. The chum of those student days relates that Pasteur perceived, in the very difficulties of the existing crystallography, an opportunity for discovery:

To appreciate properly the situation at that time would require our careful examination of the knowledge then existing. Our time is too short for this, and we shall have to be content with a bold outline.

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Let us place a book in the path of a train of electromagnetic waves, with the plane of the leaves parallel to the direction of propagation. The electromagnetic waves, vibrating in all planes perpendicular to the line of propagation, meet the leaves of the book. Those waves which are vibrating parallel to the leaves pass on. Those which are vibrating at an angle to the leaves of the book are damped. The issuing wave train now vibrates in one plane; it is polarized. Let us now place a second book beyond the first. The polarized waves are allowed to pass when the leaves are parallel and are shut off when the leaves are crossed to the plane of vibration.

In Pasteur's time the generalized theory was not known. But the principle was known in terms of light. Visible light waves are electromagnetic waves; so-called Nicol's prisms of Iceland spar take the places of our books; and we have the polarimeter, an instrument

used by Pasteur.

Now, certain substances rotate the plane of polarized light. With such a substance absent, let the second nicol of the polarimeter be turned until the light is just shut off. Then introduce the substance between the nicols. The light from the first polarizing nicol is now rotated till it passes the second "analyzing" nicol. Biot had found that one quartz crystal may rotate the polarized light to the right, another to the left. Houy had found that some quartz crystals have a little facet inclined to the right of a plane which otherwise would be a plane of symmetry, while other quartz crystals have the facet inclined to the left. Herschel was the third investigator required to bring these facts together.

Now, whereas quartz rotates when crystalized, it does not rotate when amorphous or in solution. On the other hand, certain organic compounds do not rotate as crystals, but do in solution. Here enters Pasteur. Anyone who has examined crystals as they are formed in the laboratory will realize that they seldom take the beautifully complete form pictured diagrammatically in textbooks. Thus, eminent crystallographers are excused for having missed the little facets on crystals of tartrates. Pasteur saw them. Now that we

have been shown, we all have seen them.

In the manufacture of tartrate there had been found a curious substance identical in chemical composition and chemical properties with ordinary tartrate. It was then call paratartrate. It had been described as having all the physical properties of tartrate, except an inability to rotate polarized light. Pasteur found on the crystals, however, two symmetrical facets instead of the one asymmetric facet of tartrate. Behold the beauty of the correlation:

Asymmetry of crystal—rotation of light by solution; Symmetry of crystal—no rotation of light by solution.

Then, a disappointment. On recrystallization, the symmetrical paratartrate separated into asymmetrical crystals—correlation appar-

ently destroyed. But here flashed genius. These new asymmetric crystals were of two kinds—mirror images of one another, like the right and the left hands. "In spite of all that was unexpected in this result," says Pasteur, "I followed, none the less, my idea. I separated with care the right and left handed hemihedral crystals and observed separately their solutions in the polarization apparatus. Then, with no less surprise than joy, I saw that the right-handed ones turned to the right and the left-handed ones turned to the left the plane of polarization." At last the perfect correlation:

Symmetry of crystals-no rotation by solution;

Right-handed asymmetry of crystals—right-handed rotation by solution;

Left-handed asymmetry of crystals—left-handed rotation by solution.

But Pasteur did not stop here. Since the crystals did not rotate while the solution did, it was evident that he must ascribe asymmetry to the chemical molecule. There is a left-handed molecule of tartaric acid. There is a right-handed molecule. There is a mixture-paratartaric acid, now called the racemic mixture.

Pasteur has built up evidence for asymmetry of chemical molecules where before only asymmetry of crystals had been given consideration.

The time was not ripe for the further elaboration of this view. Organic chemistry had not come into to its own, and ideas on the structure of organic compounds were hazy. But, 20 years later, when our present structural chemistry was established, Van't Hoff, in Holland, and Le Bel, in France, worked out Pasteur's ideas and gave us modern sterochemistry. To cite but one of many instances: We know to-day several sugars containing 6 carbon atoms. They all have identically the same composition and identically the same structure, except for the spatial arrangement of the atoms, the left and right handed arrangement of the groups about the carbon atoms. Theory calls for 16 steroisomers; 16 and 16 only are known.

Pasteur's researches upon tartrates had taken him to factories where he saw the destructive action of molds. They interested him. He studied them; and thus was born Pasteur, the mycologist.

Few who have felt the thrill of a discovery can escape its dominating influence. Pasteur was no exception. His vision of asymmetric chemical molecules made him see an asymmetric cosmos. The solar system can have a mirror image. Terrestrial magnetism is asymmetric. Life, he said, is dominated by dissymmetrical actions. Pasteur assailed the hopeless task of trying to influence chemical reactions by mechanical rotation and by magnetic fields. Accomplishing nothing, he returned to the chemistry of life and found in molds the instruments which attack one steroisomer and leave the

other. Here was room for the play of imagination. From speculation on the manner in which molds exercise this marvelous preferential metabolism, Pasteur dragged a concrete fact of analytical importance: optically active plant alkaloids combine with optically active acids, giving salts of sufficiently different solubilities to permit the separation of isomers.

An appointment to the faculty of science at Lille brought Pasteur to a new environment. He instructed the pupils in physics and chemistry with particular regard to the needs of local industry. The locality was rich in its fermentation industries, and so Pasteur, besides visiting iron foundries and factories of various kinds, came to a place where an attempt was being made to produce alcohol from

beet juice. There was born Pasteur, the bacteriologist.

You all know the story—his puzzling over the globules found in good juice and the strange forms they assume in spoiled juice; his examination of fermented milk, and his correlation between the long globules in fermented milk and the long globules in spoiled beet juice. At last came the beginning of bacteriology—separation of typical fermentations; studies of pure cultures (and no mean skill in their chemical analysis); clear recognition of specific types of cells; the demonstration that fermentation is a life process. Then came industrial control by means of pure cultures, adjustments of temperature and of acidity, and the heat treatment now known as pasteurization.

As "hindsight" is clearer than foresight, we can now say that Pasteur, the chemist, should have recognized the justice of Liebig's remark, "In what respect does the explanation of fermentation appear clearer when you have introduced it into a living organism." It was not until Buchner had separated enzymes capable of fermenting without the presence of living cells that Liebig and Pasteur were each shown in a degree to be right, but each wrong in his exclusion

of the other's view.

This controversy with Liebig was more or less bound up with the campaign against the theory of spontaneous generation. Others might have been content to let the experimental facts lie in the archives of scientific societies and to rest smugly in the reassurances of savants who, with Voltaire, had ridiculed the theory of spontaneous generation. Not so Pasteur. Here was a superstition, a falsehood. To dispel the superstition, Pasteur explained. Against the falsehood, he raged. In one respect it is a pity that so much time was spent in hammering away at this theory of spontaneous generation, but in another aspect it was not time wasted. Each stroke of Pasteur's hammer was a beautiful experiment; every resounding crash prepared the popular mind for the public-health work which was to follow.

The experiments are charmingly described in "Studies on Fermentation." This book is a clear and detailed account of experiments as they are done. In these days, when editors clamor for brevity and bookwriters must condense a world of information, it is refreshing to read this: "Let us boil the liquid, and, having previously drawn out the neck of the flask, let us close the end in the flame of a lamp whilst the steam is escaping, as soon as we judge that the air has been nearly all expelled."

In this easy manner Pasteur describes his experiments; but how skillfully they cut the ground from underneath an opponent, and with what glee Pasteur drops the opponent in the pit! A certain M. Duval has claimed that yeasts metamorphose to lactic ferments. Pasteur points out that M. Duval has made his medium alkaline with chalk and thus favored the lactic ferments in a mixed inoculum. Little points like this show that Pasteur was altogether too keen to be withstood.

At one time or another I have commented upon Pasteur's discernment of the effects of acidity and alkalinity on microbial life. How he managed it is a puzzle. It is probable that he depended upon color changes in litmus and thus adjusted essentially as we do to-day. Perhaps he made litmus work through a wider range than our dull eyes see to-day. Perhaps he had an awareness of intensities of acidity that we have recently had to define and formulate to appreciate.

The absolute loyalty of the man to experimental evidence and his perception of significant facts are well shown in his paper entitled "Animalcules infusoires vivant sans gaz oxygène." Now, it must be appreciated that in Pasteur's time oxygen was considered essential to all life. Some day I hope to see the list of those present at the French Academy when Pasteur read this paper. I am sure that in the list of names will be several of those who are illustrious for their studies in respiration and for the theory which had then become the dogma—no life without oxygen. Before these men, Pasteur, ignoring dogma, described what he saw—living cells which shun oxygen.

Although the philosophical significance of this has been obscured by practical applications of the fact, it stirred the imagination of Pasteur. He made it an integral part of his theory of fermentation. He dwelt upon its importance in wound infections. He speculated upon it, and some of the speculations now forgotten are worthy of reconsideration.

I believe that if we examine the life of Pasteur with care and moderation, we shall find him to be not a giant in sheer intellectual power, but rather an exceptionally keen observer, possessed of qualities often attributed to genius—the mind constantly prepared to

receive the significant impression, infinite patience to follow it, and power to visualize the consequences. Many of the facts which Pasteur is commonly believed to have discovered had been observed before. But the observations were islands. Pasteur was the earthquake that lifted the islands to a continent.

All this work on fermentation was causing a "fermentation" in men's minds, and gradually (no one can tell exactly how) there effervesced the misty idea that the contagious diseases of man and animals are somehow akin to the contagious "diseases" of beer and wine. At any rate, we at last find Pasteur's old friend Dumas urging him to assail the problem of silk-worm disease. Duclaux states that Pasteur's only training for this work was witnessing the dissection of a May beetle larva. But once in the field, Pasteur fell back upon his trusted method—personal test of every idea by experimentation. Thus was born Pasteur, the pathologist.

Six strenuous years gave France the brilliant results that saved her silk industry. Then, after a return to older problems, came the last period of Pasteur's rich life. You who are pathologists know the story better than I—the work on chicken cholera, the chance discovery of attenuated virus, and the genius that snatched from an apparent failure the light that illuminated Jenner's principle of vaccination; the work on anthrax, and the dramatic public experiment on anthrax vaccination; septicemia, and the attack upon the unhygienic methods of the lying-in hospitals; the inspiration given to Lister; and at last the eventful day when courage was summoned by this layman in medicine to treat a human patient, little Joseph Meister, the victim of a rabid dog.

It is chiefly for the work of these later years that Pasteur is being honored the world around to-day. And the reason is clear. When history is written as it will some day be written, the years of man's political rise will seem a dreary waste of wars and quarrels, and the tinseled glories of sordid kings. Real history begins when man began to conquer his environment. Among the conquerors, Pasteur was preeminent.

But when this story is told, when public health work has done its task and we are secure against our microscopic enemies, there will still be another story—that of man's attempt to understand the methods he has turned to practical uses. Here, too, Pasteur will be honored. Let us judge him by what he has done and what we have left undone.

He revealed the asymmetry of chemical structure and the asymmetric preferences of fermentation. The chemist uses the fact to separate isomers; the bacteriologist uses the fact to distinguish species. We now picture chemical structures better, but we have not explained the asymmetry of life processes.

He set straight the sequence of events in fermentation. We use the knowledge and have added details, but we do not really understand the fundamental chemistry of the simplest phase of fermentation, or the nature of virulence.

He rediscovered and added significance to anaerobiosis. The bacteriologist uses the fact for the cultivation of pathogens, and the physiologist forgets the fact and still says all life is dependent upon oxygen. Almost every known method for obtaining anaerobiosis was used in principle by Pasteur and his pupils. Yet every volume of the several bacteriological journals contains a so-called new method, adding little but a mechanical "stunt" where we find Pasteur seeking a principle.

In short, Pasteur touched upon, and, at each touch illuminated, great problems which I may call problems of understanding as contrasted with problems of practical ways and means. Because the practical ways and means were questions of life and death, Pasteur, the humanitarian, threw his great energy into their solution, and with such success that he is revered among the ignorant as a sort of Let us remember, however, that the practical ways and means were tribute moneys levied by Pasteur, the humanitarian, upon Pasteur, the scientist. Here was an insatiable craving to understand—the projection of hypotheses into the unknown, mistakes, failures, disappointments, pragmatic results which satisfy the utilitarian mind-and, at last, illumination which widened the horizon and brought honors, but left Pasteur still a pioneer, lonely, on a new far-flung frontier. We think our horizon widened since Pasteur's time. In reality we have to do not with the horizon of the trigonometer but with the horizon of the pioneer. We have gone around great areas difficult of exploration. From their darkness stalk untamed things which haunt us; and, confessing our impotence, we start anew from-Pasteur.

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As Korzybski has emphasized, the distinctive attribute of man is his ability to propagate the labor of those who have passed. In this way man has attained a new dimension. He can "bind time." He makes the past the intellectual present and the future the present vision. Thus it is that, in a sense rigidly logical and beautifully true, we have Pasteur with us to-day. He points to the facet on the crystal of tartaric acid; we would not see it otherwise. He gives us rabies prophylaxis. Our hands administer. Our minds have added little. He emphasizes the fact of anaerobiosis and, recalling his own efforts to understand, he asks if we see the relation between anaerobic fermentation and the recently discovered anaerobic phase of muscle metabolism.

We have led his bacterial friends to beneficent uses. We have encircled the world in a relentless campaign against his microbial enemies. Pasteur's eyes sparkle—then flash. Ever a man of vigor, he brings down his fist—"we foresee the accomplishment of this

humanitarian task, but when, oh when, shall we understand the chemistry of immunity?"

Pasteur—crystallographer, chemist, mycologist, bacteriologist, pathologist. The terms are too many. Let us name him investigator, and, like him, mingle our chemistry and bacteriology.

Pasteur—investigator, benefactor. He lives with us. His great heart, the heart of a living friend; his genius our inspiration.

REGULATION REQUIRING PASTEURIZATION OF MILK UPHELD.

The following is an opinion of the New York Supreme Court, Dutchess County, upholding a regulation of the board of health of the city of Poughkeepsie, which in effect prohibited the sale of any milk, except grade A raw and certified, unless pasteurized:

Morschauser, J.: The question for determination is the regulation of the board of health passed July 20, 1920, taking effect May 1, 1921. The board of health of the city of Poughkeepsie on July 20, 1920, made and published a regulation that in effect prohibits the sale of any milk in Poughkeepsie, except what is designated grade A raw and certified milk, unless the same is pasteurized. The dealers in milk were given until May 1, 1921, to prepare to meet the conditions imposed upon them by the regulations.

Ordinarily, milk is produced under circumstances which favor the introduction of dirt. The udder of the cow is not normally clean; stables where cows are kept naturally collect manure, dirt, dust, and flies; and milk is seldom, if ever, produced without contamination to a greater or less degree by some of these substances. Invariably accompanying and intimately associated with dirt are bacteria, which are far more injurious than the dirt itself. These organisms may be derived from the udder of the cow, or may have their source from the dirty condition of stables, or from contamination in handling the milk. Milk is the ideal medium for the growth of bacteria, affording the necessary elements for their development, and immediate multiplication ensues. A supply which originally contained but a few hundred bacteria to a cubic centimeter (one-fourth of a tablespoon) may within a few hours be transformed into one containing thousands or even millions. Among these bacteria are many that are harmless, and some that are necessary; but there may also be disease germs. Some of the fatal diseases known to be conveyed by milk are typhoid fever, malaria, scarlet fever, tuberculosis, diphtheria, septic sore throat, diarrhea, and enteritis.

In order to guard against the introduction of disease germs into the milk, provision is made for the inspection of dairies and the tests of the cows for tuberculosis. These measures do result in some protection to the consumers of milk, but, however thorough the inspection of the dairies may be, it does not afford absolute protection against disease, and a further means of safeguarding the milk is afforded by pasteurization.

Certified milk.—Cows must be tuberculin tested once during previous year and reactors excluded; farms must be scored not less than 35 per cent for equipment and 50 per cent for methods; employees must be examined by physicians; milkers to wear washable suits, not worn at other times; bacterial count not more than 10,000 bacteria per cubic centimeter.

Grade A raw.—Cows must be tuberculin tested once during previous year and reactors excluded; farms must be scored not less than 25 per cent for equipment and

People ex rel Ogdon v. McGowan, 195 N. Y. Supp. 286.

not less than 50 per cent for methods; milk must not contain more than 60,000 bacteria per cubic centimeter.

Grade B raw.—Cows must be healthy, as disclosed by physical examination; farms must be scored not less than 23 per cent for equipment and not less than 37 per cent for methods; milk must not contain more than 200,000 bacteria per cubic centimeter.

It is claimed that milk of all these grades should be delivered to the consumer within 36 hours of the time of milking.

Pasteurization.—To be pasteurized, milk must be subjected to a temperature of 142° to 145° F. for not less than 30 minutes. If the milk is then immediately chilled and further contamination prevented, it can no longer be considered dangerous to health. Milk which has been adequately pasteurized is considered the safest milk.

We are informed that pasteurization destroys none of the constituents of milk. The taste and appearance of pasteurized milk differ but little from those of untreated milk. The purpose of pasteurization is to kill the harmful bacteria which milk contains. For adults, pasteurized milk is fully as nutritious as raw milk, and digestibility of the two is the same.

The board of health had power to make the regulation. Section 2-b of the public health law (Consol. Laws, c. 45) gives the public health council of the State department of health power to establish a sanitary code, which shall have the force and effect of law. Section 2-c of the public health law provides:

The provisions of the sanitary code shall, as to matters to which it relates, and in the territory prescribed therefor by the public health council, supersede all local ordinances heretofore or bereafter enacted inconsistent therewith. Each city, town, or village may, in the manner hereinafter prescribed, enact sanitary regulations not inconsistent with the sanitary code established by the public health council.

Section 21 of the public health law provides:

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Every such local board [of health] shall make and publish from time to time all such orders and regulations, not inconsistent with the provisions of the sanitary code, as it may deem necessary and proper for the preservation of life and health and the execution and enforcement of this chapter in the municipality.

The regulation is not inconsistent with any of the provisions of the sanitary code. The code contains certain provisions concerning the grading: and sale of milk. Regulation 14 thereof provides as follows:

Supplementary regulations by local authorities.—The health authorities of any municipality may in their discretion increase the stringency of these regulations or add to them in any way not meansistent with the provisions thereof, and may prohibit the sale, or the keeping for sale, within the municipality of any of the grades of milk herein defined.

The legislature in the exercise of its constitutional authority may lawfully confer on boards of health the power to enact sanitary ordinances having the force of law within the districts over which their jurisdiction extends, and the board of health of the city of Poughkeepsie had the power and authority to make the regulation. Polinsky v. People (73 N. Y. 65); Fischer v. St. Louis (194 U. S. 361; 24 Sup. Ct. 673, 48 L. Ed. 1018); People ex rel. Lieberman v. Vandecarr (175 N. Y. 440; 67 N. E. 913; 108 Am. St. Rep. 781, affirmed 199 U. S. 552; 26 Sup. Ct. 144, 50 L. Ed. 305).

This regulation is one among the many deemed necessary to provide for the people of the city a clean, pure, and wholesome supply of milk and cream, free from disease and germs. It is important to the whole community that the supply of milk and cream should not be contaminated with impurities or infected with disease, and that those selling milk should use all the precautions that a scientific investigation of the proper methods of treating milk to secure the result has found to be useful and efficient. It is the duty of the health authorities to see that this is accomplished by the establishment of such reasonable regulations as may be necessary to meet existing conditions and ward off impending dangers to the public health. In requiring the lower grades of milk to be pasteurized as a condition to the sale of milk in the city, the board of health acted within the scope of its authority. The requirement that the lower grades of milk shall be pasteurized is for the protection of public health, and

every reasonable effort in this direction should be encouraged. Mannix v. Frost (100 Misc. Rep. 36; 164 N. Y. Supp. 1050, affirmed 181 App. Div. 961; 168 N. Y. Supp. 1118).

The sanitary code was designed to protect the public health, and should receive at the hands of the court a liberal interpretation. People v. Frudenberg (209 N. Y. 218; 103 N. E. 166).

Every-presumption is in favor of legislative acts, and they are to be upheld, unless there is a substantial departure from the organic law. People ex rel. City of Rochester v. Briggs (50 N. Y. 553).

If the power to legislate exists, the court has nothing to do with the policy or wisdom of the interference in the particular case, or with the question of adequacy or inadequacy of the compensation authorized. Courts do not sit in review of the discretion of the legislature or determine upon the expediency, wisdom, or propriety of legislative action in matters within the power of the legislature. Every intendment is in favor of the validity of statutes, and no motive, purpose, or intent can be imputed to the legislature in the enactment of a law other than such as are apparent upon the face and to be gathered from the terms of the law itself. People v. Budd (117 N. Y. 1, 25; 22 N. E. 670, 682; 5 L. R. A. 559; 15 Am. St. Rep. 460); People ex rel. Bolton v. Albertson (55 N. Y. 50, 54). The same rule applies to ordinances of municipalities. Cronin v. People (82 N. Y. 318, 323; 37 Am. Rep. 564).

The method of detecting tuberculosis in animals is by the injection of tuberculin, and is generally known as the tuberculin test. Agricultural law (Consol, Laws, c. 1), section 108. It is not necessary for the regulation to require that cows that react to the tuberculin test should be excluded from the herd, as such action is provided for by section 98 of the agricultural law, which provides:

If from such examination an animal be deemed to be infected with tuberculosis or any infectious or communicable disease, or its condition be such as to render it undesirable for the production of milk or a menace to the health of other animals or persons, such animal shall be immediately removed from the herd, slaughtered, or disposed of as the commissioner may prescribe, according to the provisions of this article.

The learned counsel for the relator stated at the hearing at different times that the milk dealers would suffer great loss of property by the regulation, and they would have to discontinue their business. The answer to all this is that when it becomes necessary for the health, safety, and welfare of the community, individual rights must give way. Courts will uphold the actions of public bodies when they perform their duties within the law, even though such actions may be in restraint of trade or may interfere with business interests. The rights, safety, and welfare of the community are paramount to that of individuals engaged in a business that might place in danger the lives of its citizens.

Writ dismissed: relator remanded.

DEATHS FROM INFLUENZA AND PNEUMONIA COMBINED, IN LARGE CITIES, DECEMBER 3, 1922, TO JANUARY 6, 1923.

The accompanying table shows the number of deaths from influenza and pneumonia combined in certain large cities of the United States for the last four weeks of 1922 and the first week of 1923.

Tables showing the number of cases of influenza occurring in the States, as reported to the United States Public Health Service by the State health officers, covering the periods October 1 to December 23, 1922, and December 17, 1922, to January 6, 1923, were published in the Public Health Reports for December 29, 1922, pages 3204–3205, and January 12, 1923, page 64.

Deaths from pneumonia (all forms) and influenza combined, in large cities of the United States, December 3, 1922, to January 6, 1923, inclusive.

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		Week ended—							
City.		Dec. 16, 1922.	Dec. 23, 1922.	Dec. 30, 1922.	Jan. 6, 1923.				
Alabama:									
Birmingham	7	10	13	14	15				
MobileCalifornia:		2	5	2	1				
Berkeley			2	*******	(1)				
Long Beach.		1	18	1 18					
Los Angeles. Oakland.	13	13 8	3	9	15				
Sacramento	4	3	3	4	1 4				
San Diego	2	4	1 7	1	1 5				
San Francisco.	10	10	7	6	7				
Colorado: Denver	17	14	18	8	17				
Connecticut:				1	1				
Bridgeport	3	5	2	4	9				
Hartford	5 4	5 1	2 3	3	(1)				
New Britain	9	9	1	5	(,)				
Waterbury		3	4	3	4				
District of Columbia:									
Washington	17	19	18	25	20				
Florida: Tampa	1	2	3	2	1				
Georgia:		-		-	1				
Atlanta	14	17	10	28	40				
Augusta	(1)	7	4	7	3				
Savannah	12	9	13	8	12				
Illinois: Chicago	54	83	93	90	117				
East St. Louis	4	1	4		. 3				
Peoria	1	1	6	2	8				
Rockford	2	3 2	6 3	2 2 3	(1)				
Springfieldndiana:	2	2	0	3	3				
Fort Wayne	3		2	4	1				
Gary	2	1	1						
Indianapolis	6	10	13	- 12	13				
South BendTerre Haute.	1	2 3	6 4	2	4				
Kansas:				-	********				
Topeka	2	1	1	3	1				
Wichita	1		7	3	8				
Kentucky: Covington	2	3		2	9				
Louisville.	9	3	11	2 7	17				
Louisiana:									
New Orleans	29	20	12	16	15				
Maine: Portland	1		4	2	2				
Maryland:				-	-				
Baltimore	28	30	32	41	52				
dassachusetts:	200		1903						
Boston. Cambridge	26	38 8	32 12	35	58				
Fall River	8	5	5	4	6 2 1 2 4 7 2				
Haverhill.		ĭ		2	ī				
Holyoke	4	3	1	2 5 2 4 5 7	2				
Lawrence	1	1	3	2	4				
LowellLynn	2	4 3	- 1	5	2				
New Bedford	6	5	â	7	13				
Somerville.	1		3	4					
Springfield	********	3	3	10	2 2				
Worcester	6	8	11	10	2				
Detroit	29	30	34	46	76				
Flint	1		2	4	2				
Grand Rapids	1		2	3	1 6				
Saginaw	*******	1	2	********	0				
Duluth	1	1	6		2				
Minneapolis. St. Paul	9	10	10	21	14				
St. Paul	10	12	9	17	11				
Kansas City	12	12	17	19					
	4	6	6	7	9				

Deaths from pneumonia (all forms) and influenza combined, in large cities of the United States, December 3, 1922, to January 6, 1923, inclusive—Continued.

City		Week ended—							
City.		Dec. 16, 1922.	Dec. 23, 1922.	Dec. 30, 1922.	Jan. 6, 1923.				
Nebraska:									
Lincoln	5 8.	10	1 15	12	1				
Omaha New Jersey:									
Atlantic City	1	1	2	3					
East Orange	4	2	3	1 2	*******				
Newark	18	11	23	17					
Passaic	4	5	4	5					
Trenton	6	6	4	1					
New York: Buffalo	8	10	9	8					
New York.	151	212	187	213	29				
Niagara Falls		1	2	. 1					
Rochester	2	6	10	7					
Schenectady	3	4	1 2	7	******				
Troy	4	4	3	5					
Yonkers	6	2	4	1					
Ohio:		-							
Canton	5	18	6 15	8 29					
Cincinnati	19	21	26	19					
Columbus	12	5	9	8					
Springfield		1	1	3					
Toledo	6 3	9 2	10	10					
Youngstown	3	-							
Oklahoma	2	3	5	1					
Oregon:	_	-							
Portland	7	5	11	9					
Pennsylvania: Philadelphia	91	76	112	101	1				
Rhode Island:									
Pawtucket	2	5	4						
Providence	6	9	11	13					
Charleston.	2	2	11	4					
Pennessee:	-								
Memphis	6	3	9	7					
Nashville	3	5	3	8					
Fexas: Dallas	6	1	4	6					
El Paso	1		3	8					
Fort Worth	3	2	2	6					
Houston	(1) 6	4 3	3	6 5					
San Antonio Utah:	(-)	. 0	9	3					
Salt Lake City	9	10	7	2					
Virginia:									
Norfolk	4	5	7 2	5 5	(1)				
Portsmouth	6	5	9	3	(,)				
Roanoke.	1	ï	4	5	1				
West Virginia:									
Huntington	3	2 2	2 6	5 3					
Wheeli g Wisconsin:	1	2	0	3					
Milwaukee		15		14	1				
Racine	1	1	3	1					

¹ No reports.

DEATHS DURING WEEK ENDED JANUARY 6, 1923.

Summary of information received by telegraph from industrial insurance companies for week ended January 6, 1923, and corresponding week of 1922. (From the Weekly Health Index, January 10, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Jan. 6, 1923.	Corresponding week, 1922.
Policies in force	51, 758, 878	48, 628, 495
Number of death claims	7, 492	6, 740
Death claims per 1,000 policies in force, annual rate	7. 5	7. 2

Deaths from all causes in certain large cities of the United States during the week ended January 6, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, January 10, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Estimated	Jan. 6, 1923.		Annual death rate per	Deaths under 1 year.		Infar mor talit
City.	population July 1, 1922,	Total deaths.	Death rate.1	1,000, corre- sponding week 1922.	Week ended Jan. 6, 1923.	Corresponding week 1922.	rate week ende Jan. 1923.
Total	28, 587, 287	8,142	14.9	13. 4	1,056	953	
kron, Ohio	a 208, 435	28	7.0	7.8	5	9	
lbany, N. Y	116, 223	44	19.7	15.7	6	4	1
tlanta, Ga	220, 047 762, 222 191, 017	106	25, 1	15,6	10	8	
Baltimore, Md	762, 222	270	18.5	15.6	32	31	
Birmingham, Ala	191,017	79	21.6	12.3	12	7	
loston, Mass	764, 017	255 34	17. 4 12. 3	14.4	43	29	1
ridgeport, Conn	3 143, 555 528, 163	169	16. 7	11.6 12.6	3	4	
Buffalo, N. Y. ambridge, Mass	110, 944	39	18.3	16, 0	25 6	18	1
ambridge, Mass	121, 915	33	14, 1	15, 4	4	7 6	1
amden, N. J. hicago, III.	2, 833, 288	709	13.0	11.6	88	96	
incinnati, Ohio	404, 865	173	22, 3	15.8	17	9	1
leveland, Ohio	854, 565	225	13, 7	12.1	36	21	
olumbus, Ohio	253, 455	63	13.0	11.9	7	5	
Pallas Tex	171.974	47	14.3	17.6	11	9	
layton Ohio	161, 824 267, 591	47	15, 1	12.2	5	4	
Detroit, Mich.	267, 591	85	16, 6	18.9	8	7	
Detroit, Mich	* 993, 678	282	14.8	12.4	68	46	1
Puluth, Minn	104, 183	17	8,5		2		
rie Pa	109, 528	30	14.3	10.9	3	2	
all River, Mass	120, 790	45	19.4	12.1	10	4	
lint, Mich. ort Worth, Tex	111, 794	25 25	11.7	********	7		
ort Worth, Tex	114,717	36	11. 4 13. 1	6.8	4	1	
rand Rapids, Mich	143, 572 150, 087	24	8,3	10. 5 16. 7	4	2 9	
Iouston, Tex	333, 257	82	12,8	14.4	4 8	7	
prov City V I	305, 911	70	11.9	13. 1	5	15	
onston, res. dianapolis, Ind. ersey City, N. J. ansas City, Kans. ansas City, Mo. os Angeles, Calif. outsville. Ky	113, 801	24	11.0	9. 2	1	2	
ansas City Mo	343, 988	105	15.9	16.7	21	15	
os Angeles, Calif	634, 866	207	17.0	14.8	19	14	
	634, 866 256, 877	80	16, 2	17.3	14	5	
owell, Massynn, Mass	114, 423	22	10.0	16.4	7	7	1
ynn, Mass	101,673	20	10.3		2		
emphis, Tenn	167, 862	68	21.1	20, 8	15	9	
ilwaukee, Wis	476, 603	92	10.1	10.5	16	16	
linneapolis, Minn	400, 970	104	13.5	11.7	16	9	
ashville, Tenn	120, 332	28	12.1	15.2	3	2	
ew Bedford, Mass	127, 542	60	17. 6 18. 4	10.6	7	4 2	3
ew Haven, Conn	169, 987 399, 616	160	20. 9	9.2	19	19	
ew Orleans, Laew York, N. Y	5, 839, 746	1, 471	13. 1	13.3	177	210	
Brony horough	809 536	176	11.3	10. 4	26	25	
Brooklyn borough	809, 536 2, 117, 164	487	12, 0	12.7	68	66	
Manhattan borough	2, 271, 888	653	15, 0	15, 2	64	102	
Queens borough	2, 271, 888 516, 757	115	11.6	10.7	15	12	
Richmond borough	124, 401	40	16.8	16.8	4	5]	
ewark, N. J	431,792	108	13, 0	15.1	21	14	
ewark, N. J	124, 915	32	13. 4	16.7	4	10	
akland, Calif	233, 279	46	10.3	11.0	2	4	
maha, Nebr	200, 739	56	14.5	11.2	8	8	
aterson, N. J.	138, 521	58	21. 8 19. 8	13.2	9 82	60	1
hiladelphia, Paittsburgh, Pa	1,894,500	719	15, 8	13. 7 13. 5	21	32)
	607, 902 269, 240	65	12.6	12.8	4	5	
ortland, Oreg rovidence, R. I. ichmond, Va. ochester, N. Y. Louis, Mo. Paul, Minn ilt Lake City, Utah an Antonio, Tex. an Francisco, Calif	241, 011	85	18.4	15, 1	14	14	1
ichmond. Va	178 365	56	16. 4	15, 8	5	4	
ochester, N. Y	178, 365 311, 548	68	11.4	10.9	9	9	
Louis, Mo	795, 008	227	14.9	12.7	15	13	
Paul, Minn	239, 836	65	14.1	12.0	8	8	
alt Lake City, Utah	123, 918	34	14.3	16. 4	11	6	1
	178,056	66	19.3		10		

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Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1922. Cities left blank are not in the registration area for births.
 Enumerated population Jan. 1, 1920.

Deaths from all causes in certain large cities of the United States during the week ended January 6, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, January 10, 1923, issued by the Bureau of the Census, Department of Commerce.)—Continued.

	Estimated		ended , 1923.	Annual death rate per	Death 1	Infant mor- tality	
City.	population July 1, 1922.	Total deaths.	Death rate.	1,000, corre- sponding week 1922.	Week ended Jan. 6, 1923.	Corresponding week 1922.	rate, week ended Jan. 6, 1923.
Scattle, Wash	* 315, 312 104, 445	61 30	10, 1 15, 0	8, 1 11, 0	5	3	4 8
Springfield, Mass	140, 052	38	14.1	13.8	1	1	1
Syracuse, N. Y	181,012	52	15.0	12,1	6	9	7
Facoma, Wash	100, 369	17	8.8		2		3
Toledo, Ohio	260, 717	56	11.2	11.2	11	9	-11
Frenton, N. J	125,075	48	20.0	21.3	8	8	13
Washington, D. C		162	19.3	13.7	13	19	7
Wilmington, Del	115, 568	38	17.1	12.6	7	9	14
Worcester, Mass	188, 449	37	10.2	13.8	2	5	2
Yonkers, N. Y Youngstown, Ohio	105,422 144,970	19	9.4	15, 3 11, 9	7	5 7	8

² Enumerated population Jan. 1, 1920.

MORTALITY SUMMARY FOR 62 LARGE CITIES, 1922.

Deaths from all causes, death rate, and infant mortality in 62 large cities of the United States for 1922 and comparison with 1921.

[Furnished by the Bureau of the Census, Department of Commerce.]

City.1	Esti- mated			Deaths	Provi- sional infant	Infant mor-	Mortality data for calendar year 1921.			
	population, July 1, 1922.	Total deaths.	Death rate. ²	under 1 year.	mor- tality rate, 1922.23	tality rate, 1921.	Total deaths.	Death rate.	Deaths under 1 year.	
Total	27, 502, 254	343, 676	12. 5	47,375	177	4 76	324, 945	12.1	48, 110	
Akron, Ohio 8	208, 435	1,532	7.4	300	68	68	1,564	7. 5	325	
Albany, N. Y	116, 223	1,810	15.6		80	81		15. 1	183	
Atlanta, Ga.6	220,047	3, 499	15, 9				3,078	14.8	414	
Baltimore, Md	762, 222	10, 767	14. 2		89	87		13. 8	1,598	
Birmingham, Ala.6	191,017	2,570	13. 5	356			2,725	14.6	434	
Boston, Mass.5		11,306	14. 8	1,680	93	77	10, 226	13, 5	1,501	
Bridgeport, Conn	143, 555	1, 591	11.1	222	59	66	1,503	10, 5	270	
Buffalo, N. Y	528, 163	76, 805	712.9	1,216	98	93		12.6	1,234	
Cambridge, Mass	110,944	1,454	13. 1	219	75.	64		12.6	195	
Camden, N. J	121,915	1,673	13, 8	282	90	92	1,535	12.8	305	
Chicago, Ill.6		31,544	11.2	4,889			30,819	11. 1	5,048	
Cincinnati, Ohio		6,042	15, 0	570	72	74	5,700	14.1	603	
Cleveland, Ohio	854, 565	8,739	10, 3	1,432	75	74		10. 5	1,480	
Columbus, Ohio	253, 455	3,349	13, 3	393	79	80		12,8	395	
Dallas, Tex.6	171,974	2, 170	12.7	314			1,985	12.0	305	
Dayton, Ohio	161,824	1,766	10.9	214	68	73	1,734	11.0	236	
Denver, Colo.4		4, 293	16, 1	420			3,715	14. 1	399	
Detroit, Mich.5		11,016	11. 1	2,248	87	83	10,383	10, 5	2, 299	
Erie, Pa		1, 182	10.8	155	61	70	1,190	11.2	.188	
Fall River, Mass	120,790	1,916	13. 9	437	119	114		14.2	423	
Fort Worth, Tex.4		1, 198	10.5	147			(=)	(8)	(8)	
Grand Rapids, Mich		1,578	11.0	196	59	69	1,538	10.9	23.1	
Houston, Tex.6	150, 087	1,736	11.6	262			1,851	12.8	233	

*Corrected figures.

* Not available.

¹ Cities appearing in the summary are those shown for the 52 weeks in the Weekly Health Index.
2. Allowance has been made for the extra day which must be added to the 52 weeks to give a period of 365 days. Infant mortality rate is based upon deaths under 1 year as returned each week and estimated births, 1922

Infant mortality rate for the 51 cities in the birth registration area, appearing in the summary.

Enumerated population, January 1, 1920.
 Cities with no infant mortality rate are not in the registration area for births.

Deaths from all causes, death rate, and infant mortality in 62 large cities of the United States for 1922 and comparison with 1921—Continued.

	Esti- mated	mated popu- Total Deat	Death	Deaths	Provi- sional infant	Infant mor-	Mortality data for calendar year 1921.			
City.1	lation, July 1,		rate.			tality rate, 1921.	Total deaths.	Death rate.	Deaths under 1 year.	
Indianapolis, Ind		4, 437	13. 4	489	72	75	4, 119	12.6	530	
Jersey City, N. J	305, 911	3,807	12.5	632	82	84	3,601	11.9	68	
Kansas City, Kans	113, 801	1,437	12.7	186	82	71	1, 257	12, 1	17	
Los Angeles, Calif		9,612	15, 2	980	71	68	8, 528	14.0	859	
Louisville, Ky		3,564	13.9	399	83	73	3,314	14.0	357	
Lowell, Mass	114, 423	1,338	13. 5	289	97	90	1,465	12.9	284	
Memphis, Tenn.8	167, 862	3,081	18, 4	392			2,876	17. 4	387	
Milwaukee, Wis		4,633	9. 7	793	76	82	4,587	9.8	877	
Minneapolis, Minn	400, 970	4, 280	10.7	491	51	56	4, 289	10.9	527	
Nashville, Tenn	120, 332	1,995	16.6	258			1,978	16. 2	240	
New Bedford, Mass	127, 542	1,544	12, 1	343	98	95	1,384	11.1	347	
New Haven, Conn		2, 129	12.6	278	69	61	1,933	11.6	261	
New Orleans, La.6	399, 616	6,650	16. 7	820			6, 468	16, 4	798	
New York, N. Y	5, 839, 746	69, 515	11.9	9,640	74	72	64,603	11.2	9, 594	
Bronx Borough	809, 536	7,677	9. 5	809	55	61	6,975	9.0	939	
Brooklyn Borough	2, 117, 164	23, 363	11. 1	3,402	69	65	22, 184	10. 7	3, 237	
Manhattan Borough	2, 271, 888	31,500	13. 9	4,576	86	81	28, 885	12.7	4, 555	
Queens Borough	516, 757	5,010	9. 7	635	65	68	5,032	10. 1	662	
Richmond Borough	124, 401	1,965	15.8	218	76	70	1,527	12.6	201	
Newark, N. J	431, 792	5, 189	12.1	808	73	72	4,638	10. 9	839	
Norfolk, Va	124, 915	1,395	11.2	229	78	90	1,565	12.9	253	
Oakland, Calif	233, 279	2,607	11.2	253	62	52	2,356	10.4	218	
Omaha, Nebr	200, 739	2,667	13. 3	294	61	79	2,599	13. 2	378	
Paterson, N. J	138, 521	1,730	12.5	224	69	77	1,746	12.7	257	
Philadelphia, Pa	1,894,500	24, 890	13. 2	3,328	83	78	23, 697	12.7	3, 408	
Pittsburgh, Pa	607, 902	8,660	14. 3	1,387	93	97	8, 499	14. 1	1,528	
Portland, Oreg	269, 240	3, 151	11.7	277	54.	50	2,892	10. 9	264	
Providence, R. I	241,011	3,312	13. 8	478	75	84	3, 185	13, 3	552	
Richmond, Va	178, 365	2,629	14.8	360	85	101	2, 567	14.6	437	
Rochester, N. Y	311, 548	3, 487	11.2	494	75	80	3,663	12.0	545	
st. Louis, Mo.6 st. Paul, Minn	795,008	9,918	12.5	802 .			9,607	12.2	956	
t. Paul, Minn		2,715	11.4	317	56	54	2,555	10. 7	304	
alt Lake City, Utah	123, 918	1, 551	12.6	230	72	74	1,503	12.4	251	
an Francisco, Calif	529,792	7, 490	14. 2	469	54	51	7,031	13. 5	468	
eattle, Wash.	315, 312	3,015	9.6	259	44	52	2,839	9. 0	294	
pokane, Wash	104, 445	1,410	13. 5	166	70	55	1,315	12.6	144	
pringfield, Mass	140,052	1,546	11. 1	211	58	72	1,542	11.3	243	
yracuse, N. Y	181,012	2, 266	12.6	255	89	82	2, 139	12.0	355	
oledo, Ohio	260,717	3,048	11.7	369	72	75	3,047	12.0	407	
renton, N. J Vashington, D. C.5	125, 075	2,076	16, 6	328	107	80	1,610	13. 1	272	
Vashington, D. C.s	437, 571	6,278	14. 4	771	85	83	6,055	13. 8	750	
Vilmington, Del	115, 568	1,375	11.9	275	108	93	1,361	12.0	247	
Vorcester, Mass	188, 449	2,391	12.7	343	74	77	2,387	12.9	371	
onkers, N. Y	105, 422	1, 120	10. 7	198	82	63	960	9.3	160	

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Enumerated population, January 1, 1920.
 *Cities with no infant mortality rate are not in the registration area for births

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

Reports for Week Ended January 13, 1923.

ALABAMA.	Cases.	· CALIFORNIA—continued.	
Dengue	34	Lethargic encephalitis:	Cases.
Diphtheria	37	Napa County	1
Hookworm disease	20	Pasadena	1
Influenza.		San Francisco.	1
Malaria.	25	Measles	48
Measles	8	Scarlet fever	139
Pellagra	10	Smallpox	27
Pneumonia	163	Typhoid fever	8
Scarlet fever.	27	**	
Smallpox	4	COLORADO.	
Tetanus	2	(Exclusive of Denver.)	
Trichinosis	ī	,,	
Tuberculosis	62	Cerebrospinal meningitis	1
Typhoid fever	15	Chicken pox	29
Whooping cough.	45	Diphtheria.,	7
	40	Influenza	1
ARKANSAS.		Measles	1
Chicken pox	50	Pneumonia	3
Diphtheria	31	Scarlet fever	43
Influenza	875	Smallpox	-3
Malaria	34	Tuberculosis	9
Measles	6	Typhoid fever	1
Mumps	2	Whooping cough	1.
Pellagra	3		
Pneumonia	6	CONNECTICUT.	
Scarlet fever	3	Cerebrospinal meningitis	4
Smallpox	20	Chicken pox	- 83
Trachoma	1	Conjunctivitis	2
Tuberculosis	13	Diphtheria	87
Typhoid fever	12	German measles	3
Whooping cough	22	Influenza	50
		Lethargic encephalitis	1
CALIFORNIA.		Measles	507
Cerebrospinal meningitis—Eureka	1	Mumps	36
Diphtherja	176	Pneufnonia (lobar)	52
Influenza	42	Poliomyelitis	1

(106)

connecticut—continued.	Cases.	ILLINOIS—continued.	lases.
	108		569
Scarlet fever	105	Preumonia	
Trachoma Tuberculosis (all forms)	30	Poliomyelitis—Wayne County Searlet fever:	1
Typhoid fever	2	Bureau County	8
Whooping cough	69	Cook County (including Chicago)	133
		Chicago	114
DELAWARE.		Henry County	12
Chicken pox	11	Kane County	15
Diphtheria	5	Lake County	14
Influenza	25	Madison County	8
Measles	93	Peoria County	12
Pneumonia	11	Sangamon County.	9
Scabies	1	Winnebago County	17
Scarlet fever:		Woodford County	9
Wilmington	10	Scattering	133
Scattering	2	Smallpox:	100
Tuberculosis	5	Bureau County	10
Typhoid fever	3	Carroll County	10
Whooping cough	1	I STATE OF THE PARTY OF THE PAR	23
		Henry County	
FLORIDA.		Stephenson County	8
Cerebrospinal meningitis	1	Will County	21
Dengue	5	Scattering	14
Diphtheria	9	Typhoid fever	13
Influenza	87	Whooping cough	217
Malaria	4	INDIANA.	
Pneumonia	9	Cerebrospinal meningitis-Henry County	1
Scarlet fever	1		145
Smallpox	13	Diphtheria	
Typhoid fever	6	Scarlet fever	92
		Smallpox	54
GEORGIA.		Typhoid fever	1
Chicken pox	20	IOWA.	
Dengue	8	Diphtheria	46
Diphtheria	16	Scarlet fever	111
Dysentery (amebic)	1	Smallpox	13
German measles	1		
Hookworm disease	7	KANSAS.	
Influenza	885	Chicken pox	127
Malaria	6	Diphtheria	123
Measles	10	German measles	2
Pneumonia	43	Influenza	14
Scarlet fever	9	Measles	27
Septic sore throat	2	Mumps	22
Smallpox	12	Pn monia	48
Trachoma	1	car 't fever	170
Tuberculosis (all forms)	107	mal'pox	4
Typhoid fever	5	7 be ulosis	49
		Typho'd fever	3
ILLINOIS.		Whe oping cough	21
Cerebrospinal meningitis:		LOUISIANA.	
Bureau County	1	Dengue	4
Chicago	2		34
Franklin County	1	Diphtheria	12
Stephenson County	1		7
Diphtheria:		Measles	
Cook County (including Chicago)	216		6
Chicago	183	Smallpox	8
Kane County	11	Typhoid fever	13
Lake County	12	Whooping cough	6
Madison County	17	MAINE.	
Sangamon County	12	Chicken pox	22
Scattering	104	Conjunctivitis	3
Influenza:		Diphtheria	16
Chicago	37	Influenza	6
Scattering	50	Measles	91
	00		02
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MAINE-continued.		MINNESOTA—continued.	
wants sometimes.	Cases.		ases.
Mumps	. 4	Tuberculosis	68
Pneumonia		Typhoid fever	2
Scarlet fever		Whooping cough	13
Smallpox	. 1	MISSISSIPPI.	
Tuberculosis	. 3	Dengue	6
Typhoid fever	. 3	Diphtheria	23
Whooping cough	. 87	Influenza	2,550
MARYLAND.		Scarlet fever	7
MARILAND.		Smallpox	4
Cerebrospinal mer ingitis		Typhoid fever	10
Chicken pox	. 192		
Diphtheria	. 104	MISSOURI.	
German measles	. 3	Cerebrospinal meningitis	1
Influenza	. 318	Chieken pox	22
Lethargic encephalitis	. 2	Diphtheria	51
Malaria	. 1	Epidemic sore throat	9
Measles		Influenza	462
Mumps	. 54	Measles	1
Ophthalmia neonatorum		Pneumonia	15
Pneumonia (all forms)		Searlet fever	68
Scarlet fever		Smallpox	16
Septic sore throat		Trachoma	1
Tuberculosis		Tuberculosis	3
Typhoid fever		Typhoid fever	1
Whooping cough	137	Whooping cough	5
MASSACHUSETTS.		MONTANA.	
C - A l1 manimultic		Diphtheria	7
Cerebrospinal meningitis		Poliomyelitis-Hardin	1
Chicken pex		Scarlet fever	43
Diphtheria		Smallpox	3
German measles		Typhoid fever	3
Influenza	10 3100	NEBRASKA.	
Tathamia ananhalitic	1	m	80
Lethargic encephalitis		Chicken pox	52
Measles	838	Diphtheria:	
Measles	838 169	Diphtheria: Omaha	9
Measles	838 169 16	Diphtheria: Omaha	9 18
Measles	838 169 16	Diphtheria: OmahaSeatteringInfluenza	9 18 39
Measles	838 169 16 1	Diphtheria: Omaha Scattering Influenza. Measles.	9 18 39 3
Measles	838 169 16 1 197	Diphtheria: Omaha Scattering. Influenza. Measles. Mumps.	9 18 39 3 12
Measles	838 169 16 1 197 5	Diphtheria: Omaha. Scattering. Influenza. Measles. Mumps. Pneumonia.	9 18 39 3 12 4
Measles Mumps Ophthalmia neonatorum. Pellagra Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat.	838 169 16 1 197 5 242 2	Diphtheria: Omaha. Scattering. Influenza. Measles Mumps. Pneumonia. Poliomyelitis—Hall County.	9 18 39 3 12
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septie sore throat. Trachoma.	838 169 16 1 197 5 242 2	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever:	9 18 39 3 12 4
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms).	838 169 16 17 197 242 2	Diphtheria: Omaha Scattering Influenza. Measles. Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County	9 18 39 3 12 4 1
Measles. Mumps. Ophthalmia neonatorum. Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever.	838 169 16 197 242 2 3 123	Diphtheria: Omaha Scattering. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis—Hall County. Scartet fever: Fillmore County. Holt County.	9 18 39 3 12 4 1
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough.	838 169 16 197 242 2 3 123	Diphtheria: Omaha Scattering. Influenza. Measles. Mumps. Pneumonia. Poliomyelitis—Hall County Scartet fever: Fillmore County Holt County Scattering.	9 18 39 3 12 4 1
Measles. Mumps. Ophthalmia neonatorum. Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough.	838 169 16 1 197 5 242 2 3 123 6	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Scattering Septie sore throat	9 18 39 3 12 4 1 1 8 10 44 1
Measles. Mumps. Ophthalmia neonatorum. Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria.	838 169 16 197 5 242 2 2 3 123 6 287	Diphtheria: Omaha Seattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering. Seattering. Septie sore throat Smallpox	9 18 39 3 12 4 1 1 8 10 44 1 5
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles.	838 169 16 1 197 5 242 3 123 6 287	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus	9 18 39 3 12 4 1 8 10 44 1 5
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia.	838 169 16 17 197 5 242 2 3 123 6 287 286 206 206 256	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia Poliomyelitis—Hall County. Scarlet fever: Fillmore County. Holt County Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis.	9 18 39 3 12 4 1 1 8 10 44 1 5 1
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles.	838 169 16 17 197 242 2 3 123 6 287 206 206 256 328	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus	9 18 39 3 12 4 1 8 10 44 1 5
Measles. Mumps. Ophthalmia neonatorum. Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox.	838 169 169 16 197 5 242 2 3 123 6 287 206 205 258 258 61	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia Poliomyelitis—Hall County. Scarlet fever: Fillmore County. Holt County Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis. Whooping cough.	9 18 39 3 12 4 1 1 8 10 44 1 5 1
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever Smallpox. Tuberculosis.	838 169 16 16 197 5 242 3 123 123 16 287 206 105 256 368 49	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia Poliomyelitis—Hall County. Scarlet fever: Fillmore County. Holt County Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis. Whooping cough.	9 18 39 3 12 4 1 1 8 10 44 1 5 1
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever.	838 169 16 17 197 5 242 3 123 123 6 287 206 256 328 61 49 13	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus Tuberculosis Whooping cough NEW JERSEY, Cerebrospinal meningitis	9 18 39 3 12 4 1 8 10 44 1 5 1 10 5
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever Smallpox. Tuberculosis.	838 169 16 17 197 5 242 3 123 123 6 287 206 256 328 61 49 13	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia. Poliomyelitis—Hall County. Scarlet fever: Fillmore County. Holt County. Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis. Whooping cough. NEW JERSEY. Cerebrospinal meningitis. Chicken pox.	9 18 39 3 12 4 1 1 8 10 44 1 1 5 1 10 5
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	838 169 16 17 197 5 242 3 123 123 6 287 206 256 328 61 49 13	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus Tuberculosis Whooping cough NEW JERSEY, Cerebrospinal meningitis	9 18 39 3 12 4 1 1 8 10 44 1 1 5 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	838 169 16 11 197 5 242 23 123 6 287 206 206 328 61 499 13 179	Diphtheria: Omaha Seattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septie sore throat Smallpox Tetanus Tuberculosis Whooping cough NEW JERSEY, Cerebrospinal meningitis Chicken pox Diphtheria	9 18 39 3 12 4 1 1 8 10 44 1 1 5 5 1 10 5 5 2 276 222
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	838 169 16 16 197 5 242 2 3 123 6 287 206 105 256 328 61 13 179 36	Diphtheria: Omaha Seattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Searlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus Tuberculosis Whooping cough NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza	9 18 39 3 12 4 1 1 5 1 10 5 5 226 49 1 1
Measles. Mumps. Ophthalmia neonatorum. Pellagra. Pneumonia (lobar). Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Preumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MINNESOTA. Chicken pox. Diphtheria.	838 169 169 16 197 5 242 2 3 123 6 287 206 206 105 256 328 61 179 179	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus Tuberculosis Whooping cough NEW JERSEY, Cerebrospinal meningitis Chicken pox Diphtheria Influenza Malaria	9 18 8 39 3 12 4 1 1 1 10 5 1 1 10 5 2 2 276 2222 49 1 1 1, 263
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat. Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	838 169 16 17 197 5 242 3 123 123 123 125 287 206 105 256 328 49 13 179 36 179	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia. Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis. Whooping cough NEW JERSEY. Cerebrospinal meningitis. Chicken pox. Diphtheria. Influenza Malaria. Measles.	9 18 8 39 3 12 4 1 1 5 1 10 5 5 2 276 222 49 1 1 1,263 211
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	838 169 16 16 197 5 242 3 123 123 6 287 206 256 328 61 13 179 36 116 116 116	Diphtheria: Omaha Scattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering Septic sore throat Smallpox Tetanus Tuberculosis Whooping cough NEW JERSEY, Cerebrospinal meningitis Chicken pox Diphtheria Influenza Malaria Measles Pneumonia Scarlet fever Trachoma	9 18 8 39 3 12 4 1 1 5 1 10 5 5 2 276 222 49 1 1 1,263 211
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Preumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MINNESOTA. Chicken pox. Diphtheria. Measles. Pneumonia. Poliomyelitis.	838 169 16 16 197 5 242 2 3 123 6 287 206 256 328 61 49 13 179 36 179 36 116 105 15	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia. Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis. Whooping cough NEW JERSEY. Cerebrospinal meningitis. Chicken pox. Diphtheria. Influenza Malaria. Measles. Pneumonia. Scarlet fever. Trachoma. Tophoid fever.	9 18 39 3 3 12 4 4 1 1 8 10 44 4 1 1 5 5 1 10 5 5 2 2 276 222 49 1 1, 263 211 234
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MINNESOTA. Chicken pox. Diphtheria. Measles. Pneumonia. Poliomyelitis. Scarlet fever.	838 169 16 16 197 5 242 2 3 123 6 256 105 256 328 61 179 36 179 36 116 108 5 116 108 317	Diphtheria: Omaha Seattering Influenza Measles Mumps Pneumonia Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering. Scattering. Septie sore throat Smallpox Tetanus. Tuberculosis. Whooping cough NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Malaria Measles Pneumonia Scarlet fever.	9 18 39 3 12 4 1 1 8 8 100 444 1 1 5 5 1 100 5 1 1,263 211 1,263 211 2344 1
Measles. Mumps. Ophthalmia neonatorum Pellagra. Pneumonia (lobar) Poliomyelitis. Scarlet fever. Septic sore throat Trachoma. Tuberculosis (all forms). Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MICHIGAN. Diphtheria. Measles. Preumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. MINNESOTA. Chicken pox. Diphtheria. Measles. Pneumonia. Poliomyelitis.	838 169 16 16 197 5 242 2 3 123 6 256 105 256 328 61 179 36 179 36 116 108 5 116 108 317	Diphtheria: Omaha Scattering. Influenza Measles. Mumps. Pneumonia. Poliomyelitis—Hall County Scarlet fever: Fillmore County Holt County Scattering. Septie sore throat. Smallpox. Tetanus. Tuberculosis. Whooping cough NEW JERSEY. Cerebrospinal meningitis. Chicken pox. Diphtheria. Influenza Malaria. Measles. Pneumonia. Scarlet fever. Trachoma. Tophoid fever.	9 18 39 3 12 4 4 1 1 8 8 100 5 5 2 276 6 222 49 1 1, 263 211 234 1 8

NEW MEXICO.	1	SOUTH DAROTA-continued. Cas	es.
	ises.	m 1 1	4
Chicken pox	26	Tuberculosis	1
Diphtheria	48	Typhoid fever	8
Influenza	36	Whot ping cough	a
Pneumonia	7	TEXAS.	
Scarlet fever	21	TEAAS.	
Tuberculosis	21	Cerebrospinal meningitis	1
Typhoid fever	6	Chicken pox	26
		Dengue	58
NEW YORK.	1	Diphtheria	49
(Exclusive of New York City.)		Influenza	76
	2	Leprosy	1
Cerebrospinal meningitis	168	Lethargic encephalitis	1
Diphtheria	-	Measles	1
Influenza	187	Mumps	56
Lethargic encephalitis	4	Pellagra	4
Measles	588	Pneumonia	19
Pneumonia	413	Rabies in man	3
Poliomyelitis	2	Scarlet fever	12
Searlet fever	285	Smallpox	9
Smallpox	13	Trachoma	10
Typhoid fever	14		36
Whooping cough	333	Tuberculosis	15
Wildelping Congression		Typhoid fever	1
NORTH CAROLINA.		Typhus fever	14
	1	Whooping cough	1.4
Cerebrospinal meningitis	79	VERMONT.	
Chicken pox		Chicken pox	46
Diphtheria	59	Diphtheria	5
German measles	1	Measles	29
Measles	228	Measles	8
Searlet fever	43	Mumps	4
Septic sore throat	1	Pneumonia	14
Smallpox	69	Scarlet fever	3
Typhoid fever	6	Smallpox	4
Whooping cough	124	Typhoid fever	đị.
ti nostrug		Whooping cough	or
OREGON.		WASHINGTON.	
		WASHINGTON.	
Chicken pox	27		108
	27	Chicken pox	108
Diphtheria:	27 8	Chicken pox	
Diphtheria: Portland		Chicken pox. Diphtheria. Impetigo contagiosa.	15
Diphtheria: Portland	8	Chicken pox. Diphtheria Impetigo contagiosa. Lethargic encephalitis:	15 3
Diphtheria: Portland Scattering Influenza	8	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane.	15 3 11
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis.	8 13 1 2	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver.	15 3 11
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles.	8 13 1 2 1 6	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver. Measles.	15 3 11 1 10
Diphtheria: Portland Seattering. Influenza. Lethargic encephalitis. Measles. Mumps.	8 13 1 2 1	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver. Measles. Mumps.	15 3 11 1 10 30
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia.	8 13 12 1 6	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia.	15 3 11 1 10 30 2
Diphtheria: Portland Scattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever:	8 13 12 1 6 1	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma.	15 3 11 1 10 30 2
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Scarlet fever: Benton County.	8 13 12 1 6 1 110	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia.	15 3 11 1 10 30 2
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Scarlet fever: Benton County. Seattering.	8 13 12 1 6 1	Chicken pox. Diphtheria. Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scabies. Scarlet fever:	15 3 11 10 30 2 1 6
Diphtheria: Portland Seattering Influenza Lethargic encephalitis Measles Mumps - Pneumonia Searlet fever: Benton County Seattering Smallpox:	8 13 12 1 6 1 10 8 13	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scabies Scarlet fever: Seattle.	15 3 11 1 10 30 2
Diphtheria: Portland Scattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever: Benton County Scattering Smallpox: Portland	8 13 1 2 1 6 1 1 10 8 13	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scabies Scarlet fever: Seattle.	15 3 11 10 30 2 1 6
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Searlet fever: Benton County. Scattering. Smallpox: Portland. Scattering.	8 13 1 2 1 6 1 1 10 8 13	Chicken pox. Diphtheria Impetigo contagiosa Lethargie encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies Scarlet fever: Seattle. Tacoma.	15 3 11 10 30 2 1 6
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Scarlet fever: Benton County. Seattering. Smallpox: Portland. Scattering. Tuberculosis.	8 13 1 2 1 6 1 1 10 8 13 8 9	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies. Scarlet fever: Seattle. Tacoma. Scattering.	15 3 11 1 10 30 2 1 6
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Searlet fever: Benton County. Seattering. Smallpox: Portland. Seattering. Tuberculosis. Tryphoid fever.	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scables. Scarlet fever: Seattle. Tacoma. Scattering. Smallpox.	15 3 11 10 30 2 1 6
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Scarlet fever: Benton County. Seattering. Smallpox: Portland. Scattering. Tuberculosis.	8 13 1 2 1 6 1 1 10 8 13 8 9	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scables Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis.	155 3 111 100 300 2 11 66 122 8 827 38
Diphtheria: Portland Scattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever: Benton County Scattering Smallpox: Portland Scattering Tuberculosis Typhoid fever Whooping cough	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2	Chicken pox. Diphtheria Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever.	155 3 111 100 300 22 11 66 122 88 27 38 8
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Scarlet fever: Benton County. Scattering. Smallpox: Portland. Scattering. Tuberculosis. Typhoid fever. Whooping cough.	8 13 12 1 6 1 10 8 13 8 9 12 2 3	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scables Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis.	155 3 111 1 100 300 2 1 1 6 6 122 8 8 27 38 5
Diphtheria: Portland Scattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever: Benton County Scattering Smallpox: Portland Scattering Tuberculosis Typhoid fever Whooping cough	8 13 12 1 6 1 10 8 13 8 9 12 2 3	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scabies Scarlet fever: Seattle Tacoma Scattering Smallpox. Tuberculosis Typhoid fever Whooping cough	15 3 3 11 1 10 30 2 2 1 6 6 12 8 27 38 5 5 3 3 1
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Scarlet fever: Benton County. Scattering. Smallpox: Portland. Scattering. Tuberculosis. Typhoid fever. Whooping cough.	8 13 12 1 6 1 10 8 13 8 9 12 2 3	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scabies. Scarlet fever: Seattle. Tacoma Scattering. Smallpox Tupphoid fever Whooping cough	155 3 111 1 100 300 2 1 1 6 6 122 8 8 27 38 5
Diphtheria: Portland. Seattering. Influenza. Lethargic encephalitis. Measles. Mumps. Pneumonia. Searlet fever: Benton County. Scattering. Smallpox: Portland. Scattering. Tuberculosis. Typhoid fever. Whooping cough. SOUTH CAROLINA. Influenza.	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2 3	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever Whooping cough WEST VIRGINIA. Diphtheria. Influenca:	15 3 3 11 1 10 30 2 1 1 6 6 12 8 8 27 3 N 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diphtheria: Portland Seattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Searlet fever: Benton County Seattering Smallpox: Portland Seattering Tuberculosis Typhoid fever Whooping cough SOUTH CAROLINA Influenza SOUTH DAKOTA. Chicken pox	8 13 12 1 6 6 1 1 1 10 8 13 3 8 9 12 2 3 3 1,842 19	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies. Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever Whooping cough WEST VIRGINIA. Diphtheria. Influenza: Beckley.	15 3 3 11 1 1 10 30 2 1 1 6 6 12 8 8 27 3 N 5 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diphtheria: Portland Seattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever: Benton County Scattering Smallpox: Portland Scattering Tubercalosis Typhoid fever Whooping cough. SOUTH CAROLINA. Influenza SOUTH DAKOTA. Chicken pox. Diphtheria.	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2 3 3 1,842 19 16	Chicken pox. Diphtheria Impetigo contagiosa Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma Scabies Scarlet fever: Seattle. Tacoma Scattering. Smallpox Tuberculosis. Typrhoid fever Whooping cough WEST VIRGINIA. Diphtheria. Influenza: Beckley Fairmont.	15 3 3 11 1 10 300 2 1 1 6 6 12 2 7 3 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diphtheria: Portland Scattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever: Benton County Scattering Smallpox: Portland Scattering Tuberculosis Typhoid fever Whooping cough SOUTH CAROLINA. Influenza SOUTH DAKOTA. Chicken pox Diphtheria Measles	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2 3 3 1,842 19 16	Chicken pox. Diphtheria Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies. Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever Whooping cough WEST VIRGINIA. Diphtheria. Influenza: Beckley. Fairmont. Grafton.	15 3 3 11 1 10 300 2 1 1 6 6 12 2 7 3 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diphtheria: Portland Seattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Searlet fever: Benton County Scattering Smallpox: Portland Scattering Tuberculosis Typhoid fever Whooping cough SOUTH CAROLINA Influenza SOUTH DAKOTA. Chicken pox Diphtheria Measles Mumps	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2 3 3 1,842 19 16 24 7	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargie encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies. Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever. Whooping cough WEST VIRGINIA. Diphtheria. Influenza: Beckley. Fairmont. Grafton. 'Mannington	15 3 11 10 300 22 11 66 122 8 8 5 5 31 19 19 11 15 5 9 9 1
Diphtheria: Portland Seattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Scarlet fever: Benton County Scattering Smallpox: Portland Scattering Tuberculosis Typhoid fever Whooping cough. SOUTH CAROLINA. Influenza SOUTH DAKOTA. Chicken pox Diphtheria Measles Mumps Pneumonia	8 13 1 2 1 6 1 1 10 8 13 8 9 12 2 3 3 1,842 19 16 24 7 23	Chicken pox. Diphtheria. Impetigo contagiosa. Lethargie encephalitis: Spokane. Vancouver. Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies. Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever. Whooping cough WEST VIRGINIA. Diphtheria. Influenza: Beckley. Fairmont. Grafton. 'Mannington	15 3 11 1 10 30 22 1 1 6 6 122 8 8 3 3 1 19 22 1 1 5 5 9 6 1 7
Diphtheria: Portland Seattering Influenza Lethargic encephalitis Measles Mumps Pneumonia Searlet fever: Benton County Scattering Smallpox: Portland Scattering Tuberculosis Typhoid fever Whooping cough SOUTH CAROLINA Influenza SOUTH DAKOTA. Chicken pox Diphtheria Measles Mumps	8 13 1 2 1 6 1 1 10 8 13 12 2 2 3 1 1,842 19 16 24 4 7 23 51	Chicken pox. Diphtheria Impetigo contagiosa. Lethargic encephalitis: Spokane. Vancouver Measles. Mumps. Pneumonia. Poliomyelitis—Tacoma. Scabies. Scarlet fever: Seattle. Tacoma. Scattering. Smallpox. Tuberculosis. Typhoid fever Whooping cough WEST VIRGINIA. Diphtheria. Influenza: Beckley. Fairmont. Grafton.	15 3 11 10 300 22 11 66 122 8 8 5 5 31 19 19 11 15 5 9 9 1

Deaths.

WISCONSIN.		wisconsin-continued.	
Milwaukee: Ca	ises.	Scattering-Continued.	ases.
Chicken pox	40	Influenza	47
Diphtheria	28	Measles	378
German measles	2	Pneumonia	25
Measles	942	Scarlet fever	139
Scarlet fever	137	Smallpox	51
Tuberculosis	16	Tuberculosis	38
Typhoid fever	1	Typhoid fever	1
Whooping cough	28	Whooping cough	150
Scattering:			200
Cerebrospinal meningitis	3	WYOMING.	
Chicken pox	123	Chicken pox	4
Diphtheria	65	Scarlet fever	1
German measles	5	Whooping cough	4
Reports for Week	End	led January 6, 1923.	
DISTRICT OF COLUMBIA.		KENTUCKY—continued.	
. Ca	803.	Measles: C	ases.
Chicken pox	42	Crittenden County	15
Diphtheria	18	Henderson County	37
Influenza	3	Hopkins County	162
Measles	22	Livingston County	15
Scarlet fever	21	McCracken County	45
Tuberculosis	27	Nelson County	13
Typhoid fever	3	Scattering	22
Whooping cough	39	Pneumonia	93
		Scarlet fever:	
KENTUCKY.		Jefferson County	8
Cerebrospinal meningitis:		Scattering	10
Crittenden County	1	Septic sore throat	3
Jefferson County	1	Smallpox	11
Chicken pox	27	Trachoma	2
Diphtheria:		Tuberculosis:	
· Hopkins County	18	Jefferson County	22
Jefferson County	18	Seattering	3
Scattering	18	Typhoid fever	5
German measles	1	Whooping cough	29
Influenza:			
Allen County	137	NORTH DAKOTA.	
Boyd County	105	317410 1100	
Grant County	42	Chicken pox	8
Hardin County	56	Diphtheria	13
Jefferson County	38	Measles	7
Laurel County	36	Pneumonia	13
Lawrence County	126	Searlet fever	65
Meade County	21	Smallpox	4
Scott County	23	Typhoid fever	1

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
December, 1922. Arkansas	4° 5 1	67 370 1,106 188 12	167 58 142 83 2	121	10 1,234 2,619 10 51	14	2 5	24 436 971 295 106	4 2 30 3	91 14 39 14

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922.

ANTHRAX.

City.	Cases.	Deaths.
Pennsylvania: Philadelphia	1	

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.		ended 30, 1922.	City.	Median for pre-	Week Dec. 3	ended 0, 1922.
		Cases.	Deaths.	Chy.	years.	Cases.	Deaths
Colorado: Greeley Illinois: Chicago Massachusetts: Boston Lynn Somerville Michigan: Jackson Minnesota: Duluth St. Paul	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	1 i 1	New Jersey: Newark New York: New York Ohio: Ashtabula. Cincinnati Pennsylvania: Pittsburgh Texas: Galveston San Antonio.	0 4 0 0 0 0 0 0	1	

DENGUE.

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City.	Cases.	Deaths.
		-
Louisiana:		
New Orleans	2	

DIPHTHERIA.

See p. 117; also Current State summaries, p. 106; and Monthly summaries, by States, p. 110.

INFLUENZA.

	Ca	ses.	Deaths.		Ca	ses.	Deaths,
City.	Week ended Dec. 31, 1921.	Week ended Dec. 30, 1922.	week ended Dec. 30, 1922.	City.	Week ended Dec. 31, 1921.	Week ended Dec. 30, 1922.	week ended Dec. 30
Alabama: Birmingham Mobile		4	3 1	District of Columbia: Washington Florida:		6	
Tuscaloosa		1		Tampa Georgia:	4	**** **	*******
Los Angeles		3	1	Albany		12 106	
Sacramento		1		Augusta		167	
San Francisco Santa Ana	_	i	1	Macon		50	
Santa Cruz Colorado:		1	1	RomeSavannah	· · · · · · i	70	2
Denver		******	1	Illinois: Chicago	13	12	3
Bridgeport New Britain New Haven.		13		Danville	1	·····i	
Stonington		1		Fort Scott			

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued.

		IN	FLUENZ	-Continued.			
	Ca	ises.	Deaths,		Ca	803.	Deaths,
City.	Week ended Dec. 31, 1921.	Week ended Dec. 30, 1922.	week ended Dec. 30, 1922.	City.	Week ended Dec. 31, 1921.	Week ended Dec. 30, 1922.	week ended Dec. 30 1922.
27 (coolean				New Jersey-Continued.			
Kentucky:				Newark	11	12	1
Covington	1		1	Newark	1.1		
Louisville		15		Passaic	******	1	
Louisiana:				Paterson		2	
New Orleans	1			Orange			
Maine:				Trenton			
Auburn	1	******		West Orange			
Maryland:				New York:			
Baltimore	6	35	2.	Albany		4	
Cumberland		1		Auburn	1		******
Massachusetts:				Buffalo		2	
Arlington		1		Little Felle		1	
Boston	1	35	1	Middletown. New York. Niagara Falls. Saratoga Springs.		5	
Brookline	1			New York	53	45	10
Cambridge		9		Niagara Falls	1		
Chelsen			2	Saratoga Springs		2	
Everett				North Carolina: Durham		_	11.1
Lawrence			i	Durbam			1
Lynn				Rocky Mount			
New Bedford				Ohio:		******	
Newton.				Akron	1		
Pittsfield				Chillicothe		2	
Saugus				Cincinnati		10	
Carrie 6-14				Cleveland		8	,
Springfield		1		Hamilton	2		
Webster		2	1	Tamilton	*******	13	:
Winthrop		2		Ironton	*******	13	
lichigan:				Toledo			0.11
Detroit	3	5	1	Oregon: •		-	
Highland Park		1		Portland			
Jackson			2	Pennsylvania:			
finnesota:				Philadelphia	3	6	4
Minneapolis St. Cloud	1		1	South Carolina:			-
St. Cloud	1			Charleston		230	1
Virginia		1		Tennessce:			
tissouri:				Chattanooga		4	
Kansas City		2	2	Texas:			
St. Joseph			1	Dallas			. 1
St. Louis				Virginia:			
Springfield			- 1	Roanoke	1	16	1
Iontana:			-	West Virginia:	-	-0	
Iontana: Missoula		1	. 1	Charleston	1		
lew Jersey:		-	1	Fairmont		36	
Harrison		1		Huntington		00	
			******	Wisconsin:		******	-
Jersey City				Milwaukee			
Kearny		3		BIIIWBUKCO		2	

LEPROSY

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California: San Francisco	1		Connecticut: Hartford	1	

MALARIA.

California: Alameda. Florida: Tampa Georgia: Savannah.	1 1 2		Louisiana: New Orleans Ohio: Cleveland		1
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MEASLES.

See p. 117; also Current State summaries, p. 106; and Monthly summaries, by States, p. 110.

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths
Mabama:			Georgia:		-
Birmingham		1	Georgia: Atlanta		
California:			Brunswick	1	
Oakland	1		Savannah		
			South Carolina: Greenville		
					1
	PNI	EUMONIA	(ALL FORMS).		1
Alabama:		11	Indiana—Continued. Mishawaka		
Birmingham		1	Muncie		
Mobile	3		South Bend		
Arkansas:			Terre Haute		
Fort Smith	3		Iowa;		
Hot SpringsLittle Rock	*******	i	Burlington	2	
	5	*******	Muscatine		1
California:			Kansas:		
Long Beach	30	17	Fort Scott	7	
Oakland	00	8	Lawrence		
Pasadena	2		Topeka	7	
Riverside		1	Wichita		
Sacramento	1	4	Kentucky:		
San Bernardino		*********	Covington	. 19	
San Diego	7	1 6	Louisville	. 19	
San Francisco	,	i	New Orleans	17	
Stockton		4	Maine:	**	
Colorado:			Auburn		
Denver		7	Bangor	1	
Pueblo		1	Biddeford		
Connecticut:			Lewiston		
BridgeportBristol	7	4	Portland		
Hartford	5	2 4	Maryland: Baltimore	86	
Meriden	i		Cumberland	2	
New Britain	6	3	Cumberland Frederick	1	
New Britain New Haven		5	Massachusetts		
New London		1	Amesbury		
Norwalk	······i	5	Attleboro Beverly	1	******
Stonington	1	3	Boston	36	
Waterbury		0	Braintree	1	
Washington		23	Cambridge		
Florida:			Chelsea		
Tampa		2	Chicopee		
Georgia:			Clinton		
Albany	1		Danvers	1	
Atlanta		24	Easthampton	1 2	
Augusta		7	EverettFall River		*******
Brunswick	1		Greenfield	1	
Savannan		6	Haverhill	. 4	
llinois:			Holyoke		
Aurora	1	*******	Lawrence	4	
Chicago	350	87	Leominster	3	
Cicero	6		Lynn	9	
Decatur	2	1	Malden		
Decatur East St. Louis	5	3	Medford		
Elgin.		5	Methuen		
Evanston	1		Methuen New Bedford		
Freeport		1 3	Newburyport	2	
GalesburgJacksonville	2		Newton. North Adams	8	
Kewanee	-	1	North Adams		
Mattoon	1		Pittsfield		
Oak Park	8	1	Quincy		
Pekin	1		Revere		
Peoria		2	Salem	3	
QuincyRockford		1	Somerville		
Springfield	7	3	Southbridge		
ndiana:		3	Springfield	6	
Anderson		. !	Wakebeld Waltham	5	
East Chicago		3	Watertown	3	
Fort Wayne	*******	4	Webster	4	
Hammond					

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CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.
ichigan:			North Carolina:	
Detroit	126	45	Durham	
Flint	5	4	Greensboro	
Grand Rapids	6	3	Raleigh. Rocky Mount	
Hamtramek		4	Rocky Mount	
Highland Park	1		Wilmington	
Jackson	2		Winston-Salem	
Marquette	1		Ohio:	
Pontiae	1		Akron	
Saginaw	1		Alliance	
mesota:			Canton	
Duluth	5		ChillicotheCincinnati	1
Faribault		1	Cincinnati	
Minneapolis		20	Cleveland Columbus	63
Rochester	1		Columbus	1
		17	Dayton East Youngstown	1
ssouri:			Findlay	
Independence		1	Ironton	
Kansas City	24	17	Kenmore	
St. Joseph		6	Lorain	
Springfield		3	Mansfield	
ntana:			Middletown	8
Billings		1	New Philadelphia	. 3
Missoula	5	4	Middletown New Philadelphia Niles	
braska:	I		Norwood	
Lincoln		1	Piqua	
Omaha		12	Sandusky	2
vada:	1		Springfield	
Reno	1		Tiffin	
w Hampshire:			Toledo	
Concord		1	Youngstown	
Portsmouth	1		Zanesville	
v Jersey:	1		Oklahoma:	
Atlantic City		3	Oklahoma	
Bayonne	1		Oregon:	
Belleville	3		Portland	
Bloomtleld		1	Pennsylvania:	190
Clifton	1	3	Philadelphia	139
East Orange Englewood		1	Rhode Island: Cranston	
Englewood		********	Providence	
Harrison			South Carolina:	
Hoboken		2	Charleston	9
Jersey City	9		South Dakota:	
Kearny	5	1	Sioux Falls	
Montclair		î	Tennessee:	
Newark		16	Chattanooga	2
Orange	7	1	Memphis	
Passaic		5	Nashville	
Paterson	9		Texas:	
Plainfield	4	1	Dallas	
Summit	3	1	El Paso	
Trenton	11	1	Fort Worth	
West New York		2	Galveston	
West Orange	1		Houston	
w Mexico:			San Antonio	
Albuquerque	3		Waco	
v York:			Utah:	
Albany	11		Salt Lake City	
Auburn	2	1	Vermont: Rutland	
Buffalo	36	. 8	Killand	
Glens Falls	1		Virginia: Lynchburg	
Hornell		1		
Ithaca	2	*********	Norfolk	
Lackawanna	2	1	Petersburg Portsmouth	
Lockport	1	********	Richmond	********
Middletown		1		
Mount Vernon	10	1	Roanoke	
Newburgh	358	203	Bluefield	
New York	808	203	Charleston	
Niagara Falls	***********	1	** - 111	
PeekskillPort Chester	2 2	*******	Wheeling	
	2	2	Wisconsin:	•
Poughkeepsie	7	7	Kenosha	
Rochester	4		Madison	1
Rome	2	***************************************	Marinette	
Saratoga Springs Schenectady	2	1	Milwaukee	
Syracuse	15	7	Oshkosh	
Troy		7 5	Racine	
Watertown	3	1	Wyoming:	
			Cheyenne	

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-	Week ended Dec. 30, 1922.	City.	Median for pre-		ended 0, 1922.	
	years.	Cases.	Deaths.		years.	Cases.	Deaths
Louisiana: New Orleans Massachusetts:	0	1		Tennessee: Nashville	0	1	
Fall River	0	1		Amarillo		1	
New York: New York	0	2	1		100		

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RABIES IN ANIMALS.

City.	Cases.	· City.	Cases.
California: Los Angeles Kentuc' y: Louisville	7	Missouri: Kansas City Tennessee: Memphis	, 1

RABIES IN MAN.

City.	Cases.	Deaths.
Massachusetts: Boston	1	1

SCARLET FEVER.

See p. 117; also Current State summaries, p. 106; and Monthly summaries, by States, p. 110.

SMALLPOX.

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		c ended 30, 1922.				ended 30, 1922.
	years.	Cases.	Deaths.		vious years.	Cases.	Deaths.
California:				Kansas:			
Eureka	0	1		Parsons	0	1	1
Los Angeles	0 2	1		Maryland:			1
Oakland	0	1		Baltimore	0	1	
Colorado:				Michigan:			
Denver	6	17	1	Ann Arbor	0	1	
Florida:				Detroit	2	1	
St. Petersburg		1		Flint	2 0	1	
Illinois:				Minnesota:			1
Freeport	0	5		Duluth	0	14	1
Springfield	0	1		Minneapolis	12	3	
Indiana:				St. Paul	10	2	
Elwood	0	2		Virginia	0	1	
Fort Wayne	0	2		Missouri:			1
lowa:		_		St. Louis	1	1	
Council Bluffs	0	1	li	Montana:			
Muscatine	0	1		Great Falls	0	2	1

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922-Continued.

SMALLPOX-Continued.

City.	Median for pre-		ended 30, 1922.	City.	Median for pre-	Week ended Dec. 30, 1922		
	years.	Cases.	Deaths.		years.	Cases.	Deaths	
Nebraska: OmahaOhio:	7	2		Utah: Salt Lake City Virginia:	6	2		
Dayton Newark	1 0	2		Roanoke Washington:	0	1		
Toledo Oklahoma:	1	5		SeattleSpokane	8	5 18		
Oklahoma Tulsa	4 2	5 6		Tacoma Wisconsin:	0	1		
Oregon: Portland	5	5		Ashland Eau Claire	0	2		
Pennsylvania: Philadelphia	0	2		Oshkosh Superior	3	14		

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
New York: Buffalo New York	1	1 1	Texas: Fort Worth	1	1 2

TUBERCULOSIS.

See p. 117, also Current State summaries, p. 106.

TYPHOID FEVER.

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	City. Week ended Dec. 30, 1922.	City.	Median for pre- vious	Week ended Dec. 30, 1922.			
	years.	Cases.	Deaths.		years.	Cases.	Death
Alabama: Montgomery	0	1		Kansas: Topeka	0	1	
'alifornia:				Louisiana	2	5	1
Los Angeles	0		1	Maine:	-		******
San Diego	0	1		Biddeford	0	1	
San Francisco	1	î		Portland	0	1	
Colorado:				Maryland:			
Pueblo	0	1		Baltimore	4	4	
Trinidad	1	3		Massachusetts:			
Connecticut:		0.00		Cambridge		1	*****
· Milford	0	1		Chelsea	0	1	
District of Columbia:				Haverhill	0	1	
Washington	1	4	1	Salem	0	1	******
Florida:	0	1		Southbridge Michigan:	0		
Tampa			*******	Detroit	2	2	ì
Atlanta	0		1	Missouri:	-	-	
Augusta	0	2	1	St. Louis	5	2	
Savannah	i	ī		Montana:	-		
Minois:	-			Billings	0	1	
Bloomington	0	1		Nebraska:			
Chicago	3	3		Omaha	0		
Jacksonville	0	1	1	New Jersey:			
Indiana:				Bloomfield	0	1	
Hammond	0	1		Jersey City	0	1	
Indianapolis	0		1	Montelair	0	1	

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued.

TYPHOID FEVER-Continued.

City.	Median for pre-		ended 30, 1922.	City.	Median for pre- vious		ended 0, 1922.
	vious years.	Cases.	Deaths.		years.	Cases.	Deaths
New Jersey—Continued,				Pennsylvania-Contd.			
Morristown	0	1		Philadelphia	3	5	1
Newark	0	2	2	Reading	0	2	
Orange	0	1		Sunbury	0	1	
Paterson	0	1		Washington	0	1	
Summit	0	1		York	0	1	
West Hoboken	0	1		Rhode Island:			
New York:				Providence	0	1	
Buffalo	2		1	Tennessee:			
New York	13	18	4	Memphis	0	1	1
Rochester	1	1		Texas:			
Syracuse	i	2		Dallas	0	1	1
Trov	î	2		El Paso	0	2	
Ohio:	-	_		Virginia:			1
Ashtabula	0		1	Norfolk	0	1	
Cambridge			i	Washington:			
Chillicothe	0	1		Seattle	1	- 1	
Cincinnati	1	î	1	Spokane	0	1	
New Philadelphia	0	i		Yakima	0	1	
Piqua	0	î		West Virginia:			
Pennsylvania:				Bluefield	0		1
Beaver balls	0.	1		Wheeling	0	1	
Easton	0	1		Wisconsin:			*******
	0	1		Milwaukee	2	2	1
New Kensington	0			MILWAUNCE		-	

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DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

	Popula-	Total deaths	Diph	theria.	Med	isles.		rlet ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Birmingham	178,806	60	2	2			2		6	1 2
Mobile	60,777	15	2							2
Montgomery	43, 464	17							1	
Tuscaloosa	11,996		1							
Arkansas:	**,000		1					1		
Fort Smith	28, 870		6							
Hot Springs	11,693	6								
Little Rock	65, 142.		3				2		3	
North Little Rock	14,048		1						1	
California:	11,040									
Alameda	28, 806	7							1	
Familie Chi.	12,923	6			1				3	
Eureka	13, 536	9							- 0	1
Glendale		24								,
Long Beach	55,593		3	1	3 6			1	69	*****
Los Angeles	576,673	186	54	2	0		24	- 1		23
Oakland	216, 261	62	15						4	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Pasadena	45,354	12			2		5		2	
Richmond	16,843	1					2			1
Riverside	19, 341	8	2						2	1
Sacramento	65,908	14	3				3		1	1
San Bernardino	18,721	8	2				4			2
San Diego	74,683	27	11				7		7	2
San Francisco.	506,676	124	31	4			- 8	1	22	7
Santa Ana	15, 485	9							1	1
Santa Barbara	19, 441	1								
Santa Cruz	10, 917	4								1
Stockton	40, 296	29	1				1	1		4
Colorado:										
Denver	256, 491	67	61		1		22			14
Greeley	10,958	3	-							
Pueblo	43,050	13	8	3			5		2	2
Connecticut:	30,000									
Bridgeport	143,555	30	9		22	1	12		2	3
Bristol	20,620	3	3		24					
Danbury (town).	22,325	8	3				3		*****	
	11, 238	6					5		******	2
Fairfield (town)	11, 238	0					9			-
Hartford		30			******		*****	* * * * * *	*****	
Hartford	138, 036	30			15		- 4		13	*****

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	heria.	Mea	sles.	Sea	rlet rer.	Tul	
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
onnecticut—Continued,				-						
Manchester (town)	18,370	3	1				i	*****		
Meriden (city)	29, 867 -10, 193 59, 316	0	1							
New Britain	59, 316	20	7	2	32		4			
New Britain New Haven		25	2		34		10		6	
New London	25, 688 27, 743 10, 236 91, 715	3 9	4		*****		*****			
Norwalk	10, 236	2								
Stonington (town)	91,715	21	4	1	1		14	1		
Waterbury							-		00	
Washington	437,571	143	13	2	21		22		22	
lorida:	14, 237	6	1						1	
St. Petersburg	51,608	26	3	*****	*****	*****	2			
Tampa	01,000	-	1 "				- 1			1
eorgia: Atlanta	200,616	. 86	15	2			5		2	
Augusta	52,548	32			1				4	
Drunswick	52,548 14,413 52,995	3			11		1			
Macon	83, 252	42			11		i		2	
Savannahiaho:	50, 202	**	1							
Boise	21, 393	12					2			
Pocatello	15,001	4								1
linois:	01.600						4		1	
Alton	24,682	3	3 7		1		- 2			
AuroraBloomington	28, 725		3				1			1
Centralia.	36, 397 28, 725 12, 491	7 2			1		2			
Chicago	2, 701, 705	638	192	11	120		83	2	186	1
Chicago. Chicago Heights. Cicero.	2, 701, 705 19, 653 44, 995	3							11	
Cicero	44, 995	5 9	3 2				1		11	1
DecaturEast St. Louis	43, 818	26	-	2						1
Elgin	66, 767 27, 454 37, 234	12					1		4	
Evanston	37, 234	10	1		1		1			
Forest Park	10 76%						6		*****	***
Freeport	19, 669 23, 834 15, 713 16, 026	5 15	1		4					
GalesburgJacksonville	15 713	15	2				2			
Kewanee	16,026	6								
La Salle	13,050 13,552	1			13				*****	
Mattoon	13, 552	3	2		2	*****	1		*****	
Oak Park	39, 858	8	6		2	*****				1
Pekin Peoria	12, 086 76, 121	29	i		1		10			
Quincy	35, 978	13								1
Rockford	65, 651	20	1		4		4			
Springfield	59, 183	29	1		12		1		2	i
ndiana:	90 707	4	1 3	1			2	1	1	1
Anderson Bloomington Crawfordsville	29, 767	i								
Crawfordsville	11, 595 10, 139 35, 967	6		1						
East Unicago.	35, 967	10		1			5			1
ElwoodFort Wayne	10.790	2	1				3			
Fort Wayne	86, 549	45		2	1		3	1		1
Frankfort	11,585 36,004	10	2	-	i		2			1
Hammond	14,000	0		1	1					
Indianapolis	314, 194 30, 067	91	32	3			2		8	1
Kokomo	30,067	6			4		*****			
La Fayette	22, 486	8	2			*****	*****			1
Logansport Mishawaka	21, 626 15, 195	3			22		3			
Muneie	15, 195 36, 524	26	i	1	1		1			
South Bend	70.983	9	1		42		5			
Terre Haute	66, 083	19	4				2		1	
owa:	04 055	12	6	1			3			
Burlington	24, 057	12	. 3							
Council Bluffs.	24, 151 36, 162 56, 727 39, 141	9			1		3			
Davenport	56, 727		. 13	1			3			
Dubuque					. 8	1	4		5	1

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria.	Mea	isles.		rlet ver.	Tu	ber- osis.
: City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Iowa-Continued.	-									
Muscatine	16,068	. 4	1							
Ottumwa Sioux City	23, 003 71, 227		4				5		1	
Waterloo	36, 230	1	i	1			5			
Atchison	12,630		1							
Coffeyville	12,630 13,452	0	1				1			
Fort Scott	10,693	7	1			*****				
Hutchinson Kansas City	23, 298 101, 177 12, 456		3	*****	4		6	*****	4	*****
Lawrence.	12, 456	6	4	1						
Lawrence.	16,912		2						1	
Parsons	16,028	3			*****		*****			
Salina	15, 085 50, 022	37	16	*****	*****		2		4	
Topeka	72, 217	34	23		*****		4		4	-
Kentucky:	1-,	0.2	20	*****						
Covington	57, 121	23	1				9			4
Henderson	12, 169	4			32					1
LouisvillePaducah.	234, 891 24, 735	72	6	*****	62		4	. 3	6	8
Louisiana.	24, 130	******		*****	02	*****	,			
New Orleans	387, 219	152	26				5		18	14
Maine:	** ***									
AuburnBath.	16, 985 14, 731	3 2					1	*****		******
Bath Biddeford	18,008	7		*****		*****				
Lewiston	31, 791	14								i
Portland	69, 272	14	6	*****	14			*****	*****	
Sanford (town)	10,691	3	1							
Maryland: Baltimore	733, 826	243	54	3	25		22	1	24	13
Cumberland	29, 837	14	94		10		4		24	1.3
Frederick	11,066	4	3							
Massachusetts:										
Adams (town)	12,967	1	1				2	*****		
Amesbury (town)	10,036	5			*****		5			*****
Attleboro	18,665 19,731	5		*****	14					1
Beverly	22 561	4	1		2		3			i
Boston	748, 030 10, 580 37, 748	251	71	7	70	2	53		33	13
Braintree (town)	10, 580	10	1		4 8		2			1
Brookline	109,694	41	6	1	15	*****	10		1 3	3
Chelsea	43, 184	19	3		37		4		3	1
ChelseaChicopee	43, 184 36, 214	4			*****			*****		
Clinton	12 979	8			*****		1			
Danvers Dedham	11, 198 10, 792 11, 261	1					1		*****	
Easthampton	11 261		4						*****	
Everett	40, 120	8	6		7		5		1	1
Fall River	120, 485	30	13		72		3		3	1
Fitchburg	41,029	10	S				1		1	2
Framingham	17,033 16,971 15,462	6 3	*****	1			1	*****	*****	*****
Greenfield	15, 462	3	*****	*****	*****	******			*****	*****
Haverhill	53,884	21	6	1	1		5		2	2
Holyoke	60, 203	23	3				2		1	
	94,270 19,744	22 5	3	2	2					*****
Lawrence			4		15	1	9		1	3
Leominster	112, 759				- 56	i	7		3	3
Leominster Lowell	112,759 99,148	32 45	6		(80					
Leominster Lowell Lynn Malden	112,759 99,148 49,103	45 11	6 2	*****	1				3	*****
Leominster	112,759 99,148 49,103 39,038	45 11 7		*****			3	*****	3	*****
Leominster	112,759 99,148 49,103 39,038	45 11 7 4		*****	1		3 3	* * * * * * * *	3	
Leominster Lowell Lynn Malden Medford Melrose Methuen	112,759 99,148 49,103 39,038 18,204 15,189	45 11 7 4 5	2	*****	1	2	3 3		3	1 2
Leominster Lowell Lynn Malden Medford Melrose Methuen New Bedford Newburyport	112,759 99,148 49,103 39,038 18,204 15,189	45 11 7 4 5 41 4	7		216 8		3 3 5 1		6	
Leominster Lowell Lynn Malden Medford Melrose Methuen New Bedford Newburyport Newburyport	112,759 99,148 49,103 39,038 18,204 15,189	45 11 7 4 5 41 4 24	2		216		3 3		3	i 2
Leominster Lowell Lynn Malden Medford Melrose Methuen New Bedford Newburyport Newton North Adams	112,759 99,148 49,103 39,038 18,204 15,189 121,217 15,618 46,054 22,282	45 11 7 4 5 41 4 24	7		216 8		3 3 5 1 8		6	
Leominster Lowell Lynn Malden Medford Melrose Methuen New Bedford Newburyport Newton North Adams North Adams	112,759 99,148 49,103 39,038 18,204 15,189 121,217 15,618 46,054 22,282 21,951	45 11 7 4 5 41 4 24 5 9	7		216 8		3 3 5 1		6	
Leominster Lowell Lynn Malden Medford Melrose Methuen New Bedford. Newburyport Newton. North Adams	112,759 99,148 49,103 39,038 18,204 15,189 121,217 15,618 46,054 22,282	45 11 7 4 5 41 4 24	7		216 8		3 3 5 1 8		6	2

13

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria.	Mes	sles.		ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Саяев.	Deaths.
Massachusetts - Continued.										
Quiney	47,876	11	•2		2				3	
Revere	28, 823	5								
Salem.	42,529 93,091	15	3 5		14		6		2	
Somerville	14, 245	22 6	1 0	*****	1.4		0		-	
Springfield	129,614	35	3		2		11			
Wakefield	13,025	12	1							
Waltham	30,915		7	1			6			***
Watertown	21,457	1	3	*****	1		1		1	
Webster	13,258	6 2	*****	*****		*****			*****	
West Springfield Westfield	13,443 18,604	1 4	2	i		*****	*****			
Winthrop	15, 455	i			2					
Worcester	179,754		10	2	2 5	1	23		1	
fichigan:		1	1				-			
Alpena	11, 101 19, 516	7	1				2			
Ann ArborBattle Creek	36, 164		5							***
Benton Harbor	12, 233	7	2	1	22		2		,	
Detroit	993,678	233	61	5	5		120	4	47	
Flint	91,599 137,634	29	111	4	2		12		5	
Grand Rapids	137,634	35	10				17		1	
Hamtramek	48,615	11	8	1			7			***
Highland Park	46, 499 12, 183 48, 374 12, 718 34, 273	8	8		1		i			
Jackson	48 374	17		*****			- 1		1	
Marquette	12,718	2					1			
Pontiac	34,273	11					1			
Port Huron	25,944	14					2			
Saginaw	61,903				- 1		10			
Sault Ste. Marie	12,096	0	1							
Duluth	98,917	14			33		4		2	
Faribault	11,089	2					1			
Hibbing	15,089				2		6		*****	
Minneapolis	380, 582	95	21	1	6		33		26	
Rochester	13,722 234,698	10	17		6		55	1	5	****
Virginia	14,022		1.				1			
Winona	19, 143		3		1		2			
issouri:	20,220									
Independence	11,686	4								
Joplin	29,902	110	2		2				. 8	
Kansas City St. Joseph	324, 410 77, 939	116	16 7	3	-		11		0	
St. Louis.	772,897	229	28	2	17		33		18	
Springfield	39,631	19								
ontana:				1						
Anaconda	11,668	3					1			***
BillingsGreat Falls	15, 100 24, 121	6 9	4	1			1		2	
Helena	12,037	1								
Missoula	12,668	11					2			
ebraska:						1				
Lincoln	54,948	20	.!							
Omahaevada:	191,601	59	11	2	1.	*****	6	*****	*****	
Reno	12,016	5								
Renoew Hampshire:										
Berlin. Concord	16, 104	2								
Concord	22, 167	11								
Dover	13,029	7 2				*****				
Nashua.	16, 104 22, 167 13, 029 11, 210 28, 379	5								
Portsmouth	13,569								1	
ew Jersey:										
Asbury Park	12,400	2								
Atlantic City	50,707	15	1	1	38	2	1			
BayonneBefleville	76,754 15,660		4		13		1		1	
Bloomfield	22,019	6	1	1	2		9		1 1	
Clifton	26, 470	4			2 4		2			
East Orange	26,470 50,710	4 6 3 5					9 2 11 1		1	
Englewood	11,627	3			5		1		1 1 2	
Garfield	19, 381	5	1		5 1	1			2 !	

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

~	Popula-	Total deaths	Diph	theria.	Mea	isles.		ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths,
New Jersey-Continued.						-				
Hackensack	17,667	3					2		*****	
Harrison	15, 721	20	3		1		3	*****	******	******
Hoboken	68, 166 298, 103	20	26	*****	2	*****	11	*****	11	
Jersey City	26, 724	10	20	*****	ī		2.4	*****	i	1
Montelair	28, 810	3	1				1		2	2
Morristown	12, 548	5			139	*****				
Newark	12, 548 414, 524	117	12		99	1	22			9
Orange	33, 268	4	2		34		1		1	***************************************
Passaic	63, 841	17	6		32		4		3	2
Paterson	135, 875 41, 707		11		*****		2 3	*****	6	2
Perth Amboy Phillipsburg Plainfield	41, 707	8			*****	*****	3	*****	- 1	2
Phillipsburg	16, 923	4	1	1		*****	*****	*****	1	2
Plainfield	27, 700	10	1		2	*****	1			
Summit	10, 174	51	45	3	2		12	*****	1	3
Trenton	119, 289 20, 651	OI.	4.7		-		2	*****		
Union (town)	40, 074	3			1				1	
West New York	29,926	6	2				3		1	
West Orange	15, 573	2			23		5			
ew Mexico:		7	2						3	2
Albuquerqueew York:	15, 157	,	-				*****			-
Albany	113, 344	*******	7		1		1		2	
Auburn	36, 192	4	3				*****		******	
Buffalo	506, 775	130	13	1	100	*****	29	*****	15	4
Geneva	14,648	5		*****	*****	*****	*****	*****	*****	
Glens Falls	16,638	4	*****	*****		*****	1	*****	1	
Hornell	15, 025	6	*****	*****	1	*****	*****	*****	*****	
Hudson	11,745	4		*****	î	*****	3			1
Ithaca	17,004	8	*****	*****		******	3	*****	3	
Lackawanna	17, 918 13, 029	5	1	1	*****	******				
Little FallsLockport	21,308	5								
Middletown	18, 420				1				1	
Mount Vernon	42,726	14	3		22		1			
New York	5, 620, 048	1,453	203	10	157	1	204	2	1 186	1 100
Newburgh	30, 366	9		*****	*****					
Niagara Falls	50, 760	19			3		3			
North Tonawanda	15, 482									
Pookskill		2					2		*****	
Peekskill	15, 868	6		*****	1		9		*****	1
Plattsburg	15, 868 10, 909	6		******						1
Plattsburg	15, 868 10, 909 16, 573	6 6 5	1		1 3		9		*****	1
Plattsburg	15, 868 10, 909 16, 573 35, 000	6 6 5 16	1		3		9 1 1		10	i
Plattsburg Port Chester Poughkeepsie Rochester	15, 868 10, 909 16, 573 35, 000	6 6 5 16 74		2	3 71		9 1 1 1 3		10	i 2
Plattsburg Port Chester Poughkeepsie Rochester Rome	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341	6 6 5 16 74 7	1	2	3		9 1 1 1 3 1		10	2
Plattsburg Port Chester Poughkeepsie Rochester Rome Saratoga Springs	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723	6 6 5 16 74 7	1	2	3 71		9 1 1 1 3			3
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723	6 6 5 16 74 7	19	2	3 71		9 1 1 3 1 1			3 2
Plattsburg. Port Chester Poughkeepsie Rochester Rome Saratoga Springs Schenectady Syracuse	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723	6 6 5 16 74 7 7 7	1 19 3 14	2	3 71		1 1 3 1 1 7		3 8 5	3 2
Plattsburg. Port Chester Poughkeepsie Rochester Rome Saratoga Springs Schenectady Syracuse Troy Watertown	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181	6 6 5 16 74 7 7 7 19	19		3 71		1 1 3 1 1 7 12		3 8	3 2
Plattsburg. Port Chester. Poughkeepsie Rochester Rome. Saratoga Springs Schenectady. Syracuse Troy. Watertown. White Plains.	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013	6 6 5 16 74 7 7 7 19	1 19 3 14	2	3 71		1 1 3 1 1 7 12		3 8 5	3 2
Plattsburg. Port Chester Poughkeepsie Rochester Rome. Saratoga Springs Schenectady Syracuse Troy. Waiertown. White Plains. orth Carolina:	15, 808 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031	6 6 5 16 74 7 7 19	1 19 3 14 3	2	3 71		9 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Plattsburg. Port Chester. Poughkeepsie. Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. orth Carolina: Durham	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031	6 6 5 16 74 7 7 19 8 6 16	1 19 3 14 3	2	3 71		1 1 3 1 1 7 12		3 8 5	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. Orth Carolina: Durham Greensboro.	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 719 15, 861	6 6 5 16 74 7 7 7 19 8 6 16 12	1 19 3 14 3	2	3 71		9 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Platisburg. Port Chester Poughkeepsie Rochester Rome. Sarafoga Springs Schenectady Syracuse Troy Watertown. White Plains. ororth Carolina: Durham Greensboro. Raleigh	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 719 15, 864 24, 418	6 6 5 16 74 7 7 19 8 6 16 12 16	1 19 3 14 3	2	3 71		9 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. orth Carolina: Durham Greensboro. Raleigh Rocky Mount.	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 719 15, 864 24, 418	6 6 5 16 74 7 7 19 39 8 6 16 12 16 8	1 19 3 14 3	2	3 71		9 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester Rome. Saratoga Springs Schenectady Syracuse Troy Watertown. White Plains. orth Carolina: Durham Greensboro. Raleigh Rocky Mount Salisbury.	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 786 24, 418 12, 742 13, 884	6 6 6 5 16 74 7 7 19 39 8 6 12 16 8 3 3	1 19 3 14 3	2	3 71		9 1 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Plattsburg. Port Chester. Poughkeepsie. Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. oorth Carolina: Durham. Greensboro. Raleigh. Rocky Mount. Salisbury. Wilmington.	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 77 72, 013 31, 285 21, 031 21, 719 15, 864 24, 418 24, 418 24, 742 13, 884 24, 33, 372	6 6 6 5 16 74 7 7 7 19 8 6 6 12 16 8 8 3 14	1 19 3 14 3 1	2	3 71		9 1 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Platisburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. orth Carolinas: Durham Greensboro. Raleigh Rocky Mount Salisbury. Wilmington Winston-Salem	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 786 24, 418 12, 742 13, 884	6 6 6 5 16 74 7 7 19 39 8 6 12 16 8 3 3	1 19 3 14 3	2	3 71		9 1 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. orth Carolina: Durham Greensboro. Raleigh. Rocky Mount. Salisbury. Wilmington. Winston-Salem. orth Dakota: Fargo.	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 77 72, 013 31, 285 21, 031 21, 719 15, 864 24, 418 24, 418 24, 742 13, 884 24, 33, 372	6 6 6 5 16 74 7 7 7 19 8 6 6 12 16 8 8 3 14	1 19 3 14 3 1	2	3 71		9 1 1 1 3 1 1 7 12 4 8		3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester Rome. Saratoga Springs Schenectady Syracuse Troy. Waterfown. White Plains. orth Carolina: Durham. Greensboro. Raleigh. Rocky Mount Salisbury. Winston-Salem. orth Dakota: Fargo. hio:	10, 909 16, 573 35, 090 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 719 15, 864 24, 418 12, 742 13, 884 33, 372 48, 395 21, 961	66 65 166 74 77 77 19 88 66 122 166 88 3 144 177 0	1 19 3 14 3 1	2	3 71		9 1 1 3 1 7 12 4 8 1		3 8 5 1	3 2 1
Platisburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady Syracuse Troy Watertown. White Plains. orth Carolina: Durham Greensboro. Raleigh Rocky Mount Salisbury. Wilmington. Winston-Salemoorth Dakota: Fargo. Akron	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 177, 77 72, 013 31, 285 21, 031 21, 719 15, 864 24, 418 12, 742 13, 884 24, 33, 372 48, 395 21, 961 208, 435	66 65 166 74 77 7 19 39 8 6 6 12 16 18 8 8 3 14 17 0	1 19 3 14 3 1	2	3 71		9 1 1 3 1 1 7 12 4 8 1 1 3 1 1 1 7 1 2 1 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady. Syracuse Troy. Waiterfown. White Plains. orth Carolina: Durham Greensboro. Raleigh Rocky Mount Salisbury. Wilmington Winston-Salem orth Dakota: Fargo. hio: Akron Alliance.	10, 909 16, 573 35, 909 295, 750 26, 341 13, 181 88, 723 171, 771 72, 913 21, 789 21, 781 22, 742 24, 33, 372 48, 395 21, 961 208, 435 21, 603	6 6 6 5 16 6 74 4 77 7 7 19 8 6 6 12 16 6 8 8 3 14 17 7 0 4 4 4 8	1 19 3 14 3 1	2	3 71		9 1 1 3 1 7 12 4 8 1		3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester Rome. Sarafoga Springs Schenectady Syracuse Troy Watertown. White Plains. orth Carolina: Durham Greensboro. Raleigh Rocky Mount Salisbury Wilmington Winston-Salem orth Davids Fargo hio: Akron Alliance Ashtabula	10, 909 16, 573 35, 909 295, 750 26, 341 13, 181 88, 723 171, 771 72, 913 21, 789 21, 781 22, 742 24, 33, 372 48, 395 21, 961 208, 435 21, 603	6 6 6 5 16 6 74 4 77 7 7 19 8 8 6 6 12 16 8 8 3 14 17 0 4 4 4 8 7 7 7 7 9	1 19 3 14 3 1	2	3 71		9 1 1 3 1 1 7 12 4 8 1 1 3 1 1 1 7 1 2 1 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	3 8 5 1	3 2 1
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady. Syracuse. Troy. Watertown. White Plains. orth Carolinas: Durham Greensboro. Raleigh Rocky Mount Salisbury. Wilmington Winston-Salem orth Dakota: Fargo. hio: Akron. Alliance. Ashtabula	15, 968 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 719 15, 861 24, 418 12, 742 13, 884 33, 372 48, 395 21, 961 208, 435 21, 663 22, 082 18, 811	6 6 6 5 16 74 77 7 7 19 39 8 6 12 16 16 12 16 14 14 7 7 7 7 7 7 9	1 19 3 14 3 1	2	3 71		9 1 1 3 1 7 7 12 4 8 1 4 8 1 1 4 1 4 1 1 4 1 1 1 1 1 1 1		3 8 5 1	3 2 1
Platisburg. Port Chester Poughkeepsie Rochester Rome. Saratoga Springs Schenectady Syracuse Troy. Watertown. White Plains. Outham. Greensboro. Raleigh. Rocky Mount Salisbury. Wilmington. Whiston-Salem. orth Dakota: Fargo. hio: Akron. Alliance. Ashtabula Barberton. Bueyrus	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 188, 723 171, 772, 013 31, 285 21, 031 21, 719 15, 861 24, 418 24, 418 24, 418 33, 372 48, 395 21, 961 208, 435 21, 603 22, 082 18, 811 10, 425	6 6 5 16 6 74 77 7 19 8 6 6 6 8 8 3 14 17 0 444 8 7 7 7 3	1 19 3 14 3 1	2	3 71		9 1 1 1 3 3 1 1 7 7 12 2 4 8 8 1 1 1 1 4 2 2 1 1 3 3 1 1 1 1 4 2 1 1 3 1 1 1 3 1 1 1 1 3 1 1 1 1 1 3 1		3 8 5 1	3 2 1
Plattsburg Port Chester Poughkeepsie Rochester. Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady Syracuse Troy. Watertown. Watertown. White Plains. orth Carolina: Durham Greensboro. Raleigh Rocky Mount Salisbury. Wilmington. Winston-Salem orth Dakota: Fargo. hio: Akron Alliance. Ashtabula Barberton Bucyrus. Cambridge	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 88, 723 171, 717 72, 013 31, 285 21, 031 21, 719 15, 861 24, 418 12, 742 13, 884 33, 372 24, 739 21, 663 22, 082 21, 663 22, 082 18, 811 10, 425 13, 104	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 19 3 14 3 1	2	3 71		1 1 1 3 3 1 1 7 7 12 2 1 1 4 8 8 1 1 1 4 2 2 1 1 3 3 1 1		3 8 5 1	22
Plattsburg. Port Chester Poughkeepsie Rochester. Rome. Saratoga Springs Schenectady Syracuse Troy. Watertown. White Plains Forth Carolina: Durham. Greensboro. Raleigh. Rocky Mount Salisbury. Wilmington. Winston-Salem Fargo. Ohio: Akron. Alliance. Ashtabula Barberton. Bucyrus.	15, 868 10, 909 16, 573 35, 000 295, 750 26, 341 13, 181 188, 723 171, 772, 013 31, 285 21, 031 21, 719 15, 861 24, 418 24, 418 24, 418 33, 372 48, 395 21, 961 208, 435 21, 603 22, 082 18, 811 10, 425	6 6 5 16 6 74 77 7 19 8 6 6 6 8 8 3 14 17 0 444 8 7 7 7 3	1 19 3 14 3 1	2	3 71		9 1 1 1 3 3 1 1 7 7 12 2 4 8 8 1 1 1 1 4 2 2 1 1 3 3 1 1 1 1 4 2 1 1 3 1 1 1 3 1 1 1 1 3 1 1 1 1 1 3 1		3 8 5 1	2 3 3 2 1 1 2 1

¹ Pulmonary tuberculosis only.

Deaths.

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CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria.	Mea	sles.		rlet er.		ber- osis,
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ohio-Continued.			-						91	
Cleveland	796, 841 15, 236	205	49	1	61		167	1	31	
Columbus	237, 031	86	7		12		5		3	1
Coshocton	10, 847 152, 559		1 1				2			****
DaytonEast Cleveland	152, 559	43	15				10		1	
East Youngstown	27, 292 11, 237	0 3	1				9			
Fremont	11, 237 12, 468	3 7			1		1			
Hamilton	39,675	8 7	1		9					
Ironton	14,007	7	1	*****	1	*****	1	*****	2	
Kenmore	12,683 14,706	5	2 5				1		î	****
Lancaster	37, 295	0	3		- 8		4		i	
Mansfield.	27, 824	14			41	1			1	
Martins Ferry	11 634	3			7					
Middletown New Philadelphia	23, 594	9	2						1	
New Philadelphia	10,718 26,718	10	1		1					
Newark	13, 080	1								
Norwood	24,966	6					2			
Piqua	15,044	3							1	1
Salem	10, 305	2					1			
Sandusky	22, 897 60, 840	7	7				6			
Springfield	28, 508	2 7 9 8	i				3		3	
Tiffin	14, 375	4	1		1					
Toledo	14, 375 243, 164	68	21	3	417	1	31		2	1
Youngstown	132, 358	25	23	1	2					***
Zanesville	29, 569	16	7		50		1			
klahoma:	91, 295	32	2	1	2		6			1
Oklahoma Tulsa	72, 075	32	3		4		1			
regon:		1	1				-		-	
Portland	238, 288	60	8		1		7		29	
ennsylvania:					-		2			
Allentown	73, 502	******	6 3	*****	20		2		400000	1
Altoona	60, 331 12, 730 12, 802		1		9		1			
AmbridgeBeaver Falls	12,802		1		2				*****	
Berwick	12.181		1				6			
Bethlehem	50, 358		7		2		2			
Braddock	20, 879 15, 525				10	*****		*****	*****	
Bradford Bristol	10, 273		4		13					
Butler	23, 778						1			
Canonsburg	10, 632 10, 916				2					
Carlisle	10,916						1			
Carnegie	11, 516 10, 504	******	1	*****			1	*****	*****	
Chambersburg	13, 171	******	i		3	*****	8	*****		
Charleroi.	13, 171 11, 516		î		1		1			
Chester	58, 630		1		45		3			
Chester	14, 515				4					***
Columbia	10, 836 11, 049		1	*****	3	*****	1	*****	*****	***
	14, 131	******	1		3					
Dickson							1			
Donora	13, 681				81	1	1		1	
Donora	13, 681		1			00000				***
DonoraDuboisDuquesneEaston.	13, 681 19, 011 33, 813		2	*****	1		1		. 0	
Donora	13, 681 19, 011 33, 813 93, 372				1 4				2	***
Donora. Dubois. Duquesne Easton. Erie Farrell	13, 681 19, 011 33, 813 93, 372 15, 586		2		1		1		2	
Donora	13, 681 19, 011 33, 813 93, 372 15, 586		2		1 4 2				2	
Donora. Dubois. Duquesae Easton. Erie Farrell Greensburg Harrisburg	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277		2 3		1 4 2 6 14		1		2	
Donora. Dubois Duquesne Easton. Erie Farrell Greensburg. Harrisburg. Harrisburg. Homestead.	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277 20, 452		2 3 1 3 1		1 4 2 6 14		1 14 1		2	
Donora Dubois Duquesae Easton Erie Farrell Greensburg Harrisburg Hazelton Homestead Johnstown	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277 20, 452		1 3 1 4		1 4 2 6 14		1 14 1		2	
Donora Dubois Duducsne Easton Erie Farrell Greensburg Harrisburg Hazelton Homestead Johnstown Lancaster	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277 20, 452 67, 327 53, 150		1 3 1 4 5		1 4 2 6 14 2 1 1 5		1 14 1 2 23			
Donora Dubois Duquesae Easton Erie Farrell Greensburg Harrisburg Harrisburg Homestead Johnstown Laneaster Lebanon	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277 20, 452 67, 327 53, 150 24, 643		1 3 1 4 5		1 4 2 6 14 2 1 5 18		1 14 1		1	
Donora Dubois Duquesne Easton Erie Farrell Greensburg Harrisburg Hazelton Homestead Johnstown Lancaster Lebanon McKees Rocks	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277 20, 452 67, 327 53, 150 24, 643		1 3 1 4 5		1 4 2 6 14 2 1 1 5 18 10 2		1 14 1 2 23			
Donora Dubois. Duquesne Easton. Erie Farrell Greensburg Harrisburg Hazelton Homestead. Johnstown Laneaster Lebanon	13, 681 19, 011 33, 813 93, 372 15, 586 15, 033 75, 917 32, 277 20, 452 67, 327 53, 150		1 3 1 4 5		1 4 2 6 14 2 1 5 18 10		1 14 1 2 23 23			

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPETHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

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Deaths.

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City.	Popula-	Total deaths	Diph	theria.	Mea	sles.		rlet ver.		ber- osis.
	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania—Continued.										
New Castle	44, 938						2			
New Kensington	11, 987 32, 319		2		1					
Norristown North Braddock	32, 319		1		184					
North Braddock	14, 928		1		5		1			
Oil City	21, 274 1, 823, 779 10, 484	*******	1	******		*****	*****	1	30	****
PhiladelphiaPhoenixville	1, 823, 779	588	80	11	1, 129	29	53	1	90	
Pittsburgh	588, 343	*******	20	*****	239		35		14	
Pittston	18, 497		2		200					
PittstonPlymouth	18, 497 16, 500		1							
Pottstown	17, 431				4					
Pottsville	21.876		1				1			
Reading	107, 784 137, 783	*******	2		159	*****		*****	7	
Scranton	137, 783	******			7				- 6	
Shamokin	21, 204	******			1					
SharonShenandoah	21,747 24,726 13,428	*******	1	*****		*****	1	*****		
Steelton	13 428	******		*****	57				*****	
Sunbury	15, 721			*****	1		2	Sec. se		
Swissvale	10,908		2		17		1			
Tamaqua	12, 363				2		1			
Uniontown	12, 363 15, 692		4				- 4			
Warren	14. 272				1		1			
Washington	21, 480 11, 717 73, 833				1		1			
West Chester	11,717		1		63	*****	*****	*****		
Wilkes-Barre	73, 833	******	4				4			****
Wilkinsburg	24, 403	******		*****	5 2	*****	3			****
Williamsport Woodlawn	36, 198 12, 495	******			32		9			
York	47, 512		4	*****	32		7	*****		****
Rhode Island:	11,012									
Cranston	29, 407	7			3		3			
East Providence (town)	21, 793 64, 248		1		8		1			
Pawtucket	64, 248	11					2			
Providence	237, 595	75	10		69	2	8			
outh Carolina:										
Charleston	67, 957 37, 524	30	1	1			1	*****	1	
Columbia		9								
Greenville	23, 127	9								****
outh Dakota: Sioux Falls	25, 202	9	2				1			
ennessee:	20, 202		-							
Chattanooga	57, 895						3			
Knoxyille	77, 818		1	1					3	
Memphis	162, 351	64	4		4		3		11	
Nashville	77, 818 162, 351 118, 342	47	5				6		1	
exas:										
Amarillo	15, 494						3			
Beaumont	40, 422	9								
Corsicana	11, 356	3	12						1	
Dallas	158, 976 77, 560	30	12		17		1	*****		
El Paso	106, 482	38	6	1	1 1				2	
Fort Worth	44, 255	10	3						1	
Houston	138, 276	44	3				2			
San Angelo	10, 050	. 2								
San Antonio	161, 379 38, 500	66	2				1			
Waco	38, 500	10	1							
tah: •		-						1		
Salt Lake City	118, 110	29	1				2		. 1	
ermont:	22,779	0			1					
Burlington	14, 954	10				*****	3			
Rutland	14, 304	10					-			
Alexandria	18,060	7	1							
Charlottesville	10,688	2								
Lynchburg	30,070	11	3							
Vonfalle	115,777 31,012		4		2		3		4	
Norioik										
NorfolkPetersburg	31,012	10	1				1	1		
Petersburg Portsmouth Richmond	31, 012 54, 387 171, 667	10 13 42	1	*****	1	*****	7		9	

CITY REPORTS FOR WEEK ENDED DECEMBER 30, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diph	theria.	Mea	isles.		ver.		ber- osis.
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Washington:		1								
Bellingham	25, 585						2			
Everett	27,644						1		1	
Seattle	315, 312		3				6		13	
Spokane	104, 437		6		1		14			
Tacoma	96, 965				1		4			
Yakima	18, 539		1	1			2		1	
West Virginia:										
Bluefield	15, 282	6	1				2 5			
Charleston	39,608	19	1		1		5		2	
Clarksburg	27,869	3	6				4			
Fairmont	17, 851		6				5		i	
Huntington	50, 177	17	3				1			
Martinsburg	12, 515						1			
Morgantown	12, 127				4	1			*****	****
Moundsville	10,669	3	1			*****			2	****
Parkersburg	20,050	5	2		*****		1			
Wheeling	56, 208	16	3		63	2	2		2	
Wisconsin:										
Appleton	19, 561	6	4						*****	
Beloit	21, 284			*****	2	*****	6		*****	
Eau Claire	20,903				*****		1			
Fond du Lac	23, 427	5		*****				*****		
Green Bay	31,017		2			*****				
Janesville	18, 293	7	*****		16	*****		*****		
Kenosha	40, 472		*****		37	*****	17			
La Crosse	30, 421		3		19		3	*****		
Madison	38, 378 17, 563	10	2	*****	*****	*****	3	*****		****
Manitowoe	13,610	6	2		*****	*****	*****	*****	*****	
Marinette	457, 147	105	25	6	539	1	71		16	
Oshkosh	33, 162	12	1		0.10		1	*****	10	
Danima Danima	58, 593	13	2	*****	3	*****	3	*****	1	
Racine	30, 955	2	14	*****	9	*****	2	*****		
SheboyganStevens Point	11, 371	1	1	*****		*****	3			*****
Superior	39, 671	7	2	*****		*****		*****		
Wansan	18,661		2	*****	*****		*****	*****	*****	*****
West Allis	13, 745	2	-	*****	11		3		*****	
Wyoming:	10, 110	-	*****		**			*****	*****	
Cheyenne	13, 829	5								
CHC, CHRC	10, 549	0		*****			*****			

FOREIGN AND INSULAR.

CHINA.

Cholera - Liutaoku - September, 1922.

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Under date of October 9, 1922, cholera was stated to have appeared at Liutaoku, China, September 22, 1922, with 20 reported deaths, 60 cases sent to hospital, and 5,000 inoculations performed. Thirty deaths from cholera were reported along the Korean bank of the Yalu River. No cases were reported within the railway zone.

INDIA.

Cholera - Smallpox - Local Outbreaks - Calcutta.

During the week ended December 2, 1922, an increase in the occurrence of cholera and smallpox was noted at Calcutta, India, 25 cases of cholera with 18 deaths being noted as compared with 8 cases with 2 deaths during the preceding week, and 10 cases of smallpox with 5 deaths as compared with 2 cases with 2 deaths during the preceding week. In both cases the increase occurred in local outbreaks, each confined to one ward of the city. The port and shipping remained free from cholera. The increase in general mortality was 24 (week ended November 25, 1922, deaths, 483; week ended December 2, 1922, deaths, 507; population, 903,173).

JAVA.

Epidemic Plague - Klaten.

Under date of November 4, 1922, epidemic plague was reported in the Residency of Soerakarta, occurring at Klaten, district of Ponggok.

Plague - October, 1922.

During the month of October, 1922, 454 cases of plague, with 338 deaths, were reported in the Island of Java.

MADAGASCAR.

Plague.

Information dated November 14, 1922, shows the occurrence of plague in Madagascar to October 30, 1922, as follows: In Moramanga Province, 21 cases with 18 deaths, pneumonic; Tananarive Province, district of Fenoarivo, 7 cases, with 7 deaths, septicemic. In addition, one fatal case of septicemic plague was reported in the town of Tananarive during the week ended October 29, 1922.

MESOPOTAMIA.

Plague - Smallpox-Bagdad-October, 1922.

During the month of October, 1922, 7 cases of plague and 285 cases of smallpox with 153 deaths, were reported at Bagdad, Mesopotamia. (Population, officially estimated, 250,000.)

PERU.

Plague -November 16-30, 1922.

During the period November 16-30, 1922, 75 cases of plague with 39 deaths, occurring in 16 localities, were reported in Peru. (For distribution according to locality, see page 130.)

POLAND.

Communicable Diseases - October 1-28, 1922.

During the period October 1-28, 1922, communicable diseases were reported in Poland, including Upper Silesia and Vilna, but exclusive of Minsk, as follows:

October 1-7, 1922.

Disease.	Cases.	Deaths.	Locality showing greatest number of deaths.
Cerebrospinal meningitis Diphtheria Measles. Searlet fever. Smallpox. Tuberculosis. Typhoid fever Typhus fever Typhus fever Typhus fever. Wilcoping cough	5 91 318 332 13 60 600 119 212 279	7 11 9 41 3 165 37 7 4 15	Lodz; Silesia. Lodz; Posen; Warsaw City. Lwow; Warsaw City. Lwow; Stanislawow. Kielce. Lodz; Lwow: Warsaw City. Krakow; Lodz: Lwow, Nowogrodek; Volhynia. Volhynia. Lwow; Stanislawow.

October 8-14, 1922.

Cerebrospinal meningitis Diphtheria Measles. Scarlet fever. Scarlet fever. Stralipox. Tuberculosis. Typhoid fever Typhus fever. Typhus fever. Typhus fever, recurrent Whooping cough	5 92 599 350 6 83 570 131 174 171	6 17 10 62 4 143 64 9 6	Kielee; Lodz. Lublin. Stanislawow; Warsaw City Do. Kielee. Lodz; Warsaw City. Lodz. Lwow; Warsaw district. Lublin: Pedesia; Vollaynia. Lwow; Stanislawow.
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October 15-21, 1922.

Cerebrospinal meningitis. Diphtheria. Measles	6	1	Lodz.
	102	7	Former German Poland.
	474	16	Lwow.
Paratyphus Scarlet fever Smallpox Tuberculosis	385	33	Lwow; Stanislawow. Lwow; Warsaw City.
Typhoid fever Typhus fever Typhus fever, recurrent	586	35	Kielce; Volhynia.
	131	11	Lublin.
	182	3	Lwow; Nowogrodek; Volhy
Whoeping cough	281	10	nia. Lwow.

October 22-28, 1922.

Disease.	Cases.	Deaths.	Locality showing greatest number of deaths.			
Cerebrospinal meningitis	5	4	Krakow: Lodz: Lwow.			
Diphtheria	109	8	Warsaw City.			
Measles	675	11	Lwow.			
Scarlet fever	326	62	Tarnopol: Warsaw City.			
Smallpox	20	7	Kieke.			
Tuberculosis	57	134	Lwow: Warsaw City,			
Typhoid fever	400	40	Lodz: Warsaw City.			
Typhus fever	134	• 12	Stanislawow.			
Typhus fever, recurrent	157	. 3	Kielce; Nowogrodek; Volhy- nia.			
Whooping cough	118	10	Tarnopol; Lwow.			

Dysentery.

During the period October 1-28, 1922, 863 cases of dysentery, with 157 deaths, were reported in Poland, occurring in the districts of Krakow, Lodz, and Stanislawow.

Trichinosis-Warsaw.

During the week ended October 21, 1922, two deaths from trichinosis were reported in Warsaw.

RUSSIA.

Anthrax-Leprosy-Lettonia.

During the month of October, 1922, one case of anthrax and one case of leprosy were notified in Lettonia, Russia.

Cholera.

Information dated December 6, 1922, shows the occurrence of 83,367 cases of cholera in Russia from January 1 to October 7, 1922. The occurrence during the first week in October, 1922, was 37, of which 7 cases occurred in the government of Archangel, 27 in Tashkent, Republic of Turkestan, and 3 on waterways. Provisional returns for the month of September, 1922, show the occurrence of 119 new cases in the Ukraine.

Communicable Diseases - Esthonia - Lettonia - October, 1922.

During the month of October, 1922, communicable diseases were reported in the Provinces of Esthonia and Lettonia, Russia, as follows:

Esthonia.

Disease.	Cases.	Remarks.
Diphtheria Measles Scarlet fever Smallpox Tuberculosis Typhoid fever Typhoig fever	45 77 38 9 103 74 5	Paratyphus fever, 11 cases.

¹ Epidemiological Report of the Health Section of the League of Nations, Pec. 6, 1922.

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Lettonia.

Discases.	Cases.	Remarks.
Cerebrospinal meningitis	1 49 1 14 120 1 111 111 19 4 6	Paratyphus fever, 2 cases.

Communicable Diseases - Ukraine - January-September, 1922 (Comparative).

Communicable diseases were reported in the Ukraine for the period January-September, 1922, compared with the same period in the preceding year, as follows:

Disease.	Jan Sept., 1922.	ot., Sept., Discase.		Jan Sept., 1922.	Jan Sept., 1921.
Diphtheria. Dysentery Relapsing fever Scarlet fever.	8, 745	17,612	Smallpox	8,744	33, 532
	36, 156	42,227	Typhoid fever	72,993	83, 441
	369, 125	257,771	Typhus fever	307,329	144, 669
	12, 387	34,984	Undiagnosed typhus	54,673	22, 055

Typhus Fever-Relapsing Fever.

Provisional returns ¹ of typhus fever and relapsing fever in Russia for the 8-week period ended September 23, 1922, show 22,803 cases of typhus fever and 53,261 cases of relapsing fever.

For the Ukraine, the Tartar Republic, and Siberia provisional figures are given, as follows: Month of June, 1922—typhus fever, 35,926 cases; relapsing fever, 54,586 cases. Month of July, 1922—typhus fever, 17,262 cases; relapsing fever, 43,871 cases. For the months of August and September, 1922, approximate figures show as follows: August, 6,864 cases of typhus fever and 27,371 of relapsing fever; September, typhus fever, 2,388 cases; relapsing fever, 12,005 cases.

UNION OF SOUTH AFRICA.

Smallpox - Typhus Fever - October, 1922.

During the month of October, 1922, 17 cases of smallpox and 886 cases of typhus fever with 77 deaths were reported among the native (colored) population of the Union of South Africa. During the same period four cases of typhus fever with one death were reported among the white population. (For distribution of occurrence according to States, see p. 131.)

Epidemiological Report of the Health Section of the League of Nations, Dec. 6, 1922.

Prevalence of Typhus Fever-Vaal River.

Typhus fever was stated, November 27, 1922, to be highly prevalent in the Vaal River "diggings," with 80 cases and a mortality of approximately 70 per cent at one camp on the lower river. It was stated that the disease was prevalent during the past six months, and that the mortality among natives was much greater than that caused by the epidemic of influenza in 1918. The infection was believed to have been carried to the populous native district of Taungs.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

The reports contained in the following tables must not be considered as complete or final, either as regards the list of countries included or the figures for the particular countries for which reports are given.

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Reports Received During Week Ended January 19, 1923. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China: Liutaoku Chosen (Korea): Yalu River Region.	Sept. 22	60	20	Sept. 22, 1922: 30 deaths reported
India: Calentia Rangoon Philippine Islands: Province	Nov. 19-Dec. 2 Nov. 19-25	33 2	20 2	
Laguna	Oct. 12-18	1		Jan. 1-Oct. 7, 1922: Cases, 83,367
Archangel (government)	Oct. 1-7	7		
Tashkent	do	27		Turkestan Republic: 3 cases re ported on waterways, Sept. 1-30, 1922: Cases, 119.
Donetz (Government)	Sept. 1-30	29		Cepe: 1 00, 1022. Cases, 118.
ment).	do	36		
Siam: Bangkok	Oct. 29-Nov. 4	1		

PLAGUE.

Egypt				Jan. 1-Dec. 7, 1922: Cases, 484 deaths, 227.
City— Suez	Dec. 2-5	2	2	
Province— Dakahlieh	Dec. 3	1	1	Pneumonic.
India: Bombay	Nov. 5-18	15	14	
Madras Presidency Rangoon	Nov. 19-25	700	449	
Java				Oct. 1-31, 1922: Cases, 454 deaths, 338,
East Java— Soerakarta Residency—				D
Klaten	Nov. 4			Present in epidemic form.
Moramanga Province				To Oct. 30, 1922: Cases, 21; deaths,
Tananarive Province	1			 Pneumonic. To Oct. 30, 1922: Cases, 7; deaths, Septicemic. Occurring in
		-		Fenoarivo region. (See Pub- lie Health Reports, Dec. 29, 1922, p. 3237.)
Tananarive	Oct. 23-29		1	Septicemic.
Bagdad	Oct. 1-31	71		

From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended January 19, 1923 - Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Re			
Peru Localities— Cafiete . Chiclayo . Eten . Guadaloupe . Huacho . Huaral . Jayanca . Lambayeque . Lima (city) . Lima (country) . Magdalena del Mar .		16 11 3 8 2 1 3 5 2	7 7 7 5 1 2 3 2 1	Nov. 16-30, deaths, 39,	1922:	Cuses,	75
Mosche	dododododo	2 8 3 3 3	1 5 2 3				
Siam: Bangkok	Nov. 12-18	2	1				

SMALLPOX.

SMALLIUA.				
Canada:				
Manitoba-			1	
Winnipeg D	ec. 17-23	6		.1
Ontario-			1	
Hamilton D	ec. 31-Jan. 6			
Ottawa D	ec. 17-23	3		
Toronto D	ec. 10-30	. 2		
Saskatchewan-		1		
Regina D	ec. 3-23	2		
Cevion:		1		
Colombo N	ov 12-25	5	2	
Chile:		1		
Concepcion Oc	1. 24-30		7	
China:				
Amov No	ov. 5-18		2	Nov. 29, 1922: Present.
Antung De	ec. 4-10	1		
Chungking N	ov. 5-11			Present.
Foochow No	ov. 12-25			D_0 ,
Manchuria—				
Mukden No	ov. 19-Dec. 2			Do.
Nanking No	ov. 5-18			Do.
Chosen:		1		
Chemulpo Oc	4. 1-31	4		
Seoul		1 5		
	********			Oct. 1-31, 1922; Cases, 3,
Serlia-				
Belgrade No	ov. 12-18	2	1	
Dominican Republic:		1	-	
	se. 14- 20	1		
	ec. 3-16			Present.
France:				***************************************
	ec. 1-10	1		
Germany:		-		
	e. 3-9	1		
Great Britain:		1		
	ov. 26-Dec. 2	1		
Greece:				
	ov. 6-12	Ī	1	
India:				
	v. 5-18.	2	2	
	v. 19-Dec. 2	12	7	
	ov. 26-Dec. 2			
	ov. 19-Dec. 2	14	7	
	ov. 12-25	3	i	
lava:			-	
East Java-				
	v. 5-11	4		
Mesonotamia:				
	1.1-31	285	1.53	
Mexico:		2007	2.49	
	e. 11-17.		1	
Mexico City No		5		Including municipalities in Fed-
				eral District.

Reports Received During Week Ended January 19, 1923-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
*				
Poland				Oct. 1-28, 1922: Cases, 48; deaths
Portugal: Lisbon	Dec. 3-9	26		11.
Russia: Esthonia Lettonia	Oct. 1-31do	9		
Ukraine				Jan. Sept., 1922 Cases, 8,744.
Spain: Seville Valencia	Dec. 4-17 Dec. 10-16		12	
Switzerland:	200110 10111111111111111111111111111111			
Berne	Nov. 19-Dec. 9	39		
Zurich	Nov. 26-Dec. 2	8		
Syria:	Dec. 3-9			Present.
AleppoTunis:	1. CC. 9-0			1 It waste.
Tunis	Dec. 9-15	2		
Turkey:				
Constantinople	Dec. 3-9	-28	7	
Union of South Africa				Oct. 1-31, 1922; Cases, 17. Na
				tives.
Cape Province				Oct. 1-31, 1922: Cases, 9. Oct. 1-31, 1922: Cases, 8.

TYPHUS FEVER.

TITHES FEFTIME					
China:					
Antung	Dec. 4-10	2			
Cuba: Matanzas	Dec. 25-31	1	1		
Egypt: Cairo	Oct. 1-7	3	2		
Germany: Coblenz		1			
Dresden	do	1	********		
Mexico:					
Mexico City	Nov. 12-18	15		Including municipalities in Federal district.	
Palestine:					
Jaffa	Dec. 12-18	2			
Poland				Oct. 1-28, 1922: Cases, 515; deaths 59. Recurrent typhus: Cases,	
Russia				725; deaths, 16. July 30-Sept. 23, 1922; Cases, 23,- 833.	
Esthonia	Oct. 1-31do	307, 329		Recurrent typhus, cases, 5. Recurrent typhus, cases, 4.	
and Siberia.					
Do	July 1-31	17, 262		Do.	
Do	Aug. 1-31	6, 884		Do.	
Do	Sept. 1-30	2,388			
Union of South Africa				Oct. 1-31, 1922; Cases, 890; deaths, 78 (white—cases 4, deaths 1; colored—cases, 886, deaths 77).	
Cape Province				Oct. 1-31, 1922; Cases, 817, deaths, 60 colored); white, 2	
Natal				Cases. Oct. 1-31, 1922: Cases, 45, deaths, 13 (colored), white—1 case.	
Orange Free State				Oct. 1-31, 1922: Cases, 19, deaths, 4 (colored); white—1 case, 1	
Transvaal				death. Oct. 1-31, 1922: Cases, 5 (colored).	

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Reports Received from December 30, 1922, to January 12, 1923.¹ CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India				Sept. 24-Oct. 28, 1922; Cases, 4,611
IndiaBombay	Out 27 Nov. 4	1		deaths, 3,070
Colontia	Nov. 19.18	i	1	deaths, 5,0.0
Calcutta	Nov. 12-10	2		
Daniel Da	Nov. 19-23	3	i	
Kangoon	NOV. 12-18	3	1	
	PLA	GUE.		
Azores:				1
Fayal Island—	-			
Castelo Branco	Dec. 2		2	Vicinity of Horta.
Pico Island—		1	1	
Lages	Nov. 27-Dec. 15		8	1 case present Dec. 15, 1922.
St. Michaels Island	Nov. 12-25	32	15	At localities 3-9 miles from Ponta Delgado.
Brazil:				
Bahia	Oct. 29-Nov. 18	1	1	
Porto Alegre	Nov. 19-25	. 1		
British East Africa: Kenya Colony —				
Tanganyika Territory	Oct. 15-21		1	
Ceylon:	Nov. 10 10	9		Diames as land 0
Colombo	Nov. 12-18	9	5	Plague rodents, 3.
Honzkong	Nov. 5-18	6	6	All I
Ecuador:				
Gunyaquil	Nov. 1-30	1	1	Rats examined, 8,750; found in
**				fected, 52.
Egypt				Jan. 1-Nov. 30, 1922: Ca.es, 480
City-	Nov. 10 95		2	deaths, 224.
Alexandria	Nov. 19-25 Nov. 19-27	4	2	
Port Said	Nov. 18-19.	1	2	
Suez	NOV. 18-19	,	-	
Province— Assignt	Nov. 19	1		
	Nov. 18-27	2	1	
Minieh	Nov. 18-24	- 2		Oct. 1-28, 1922; Cases, 7,569
India		1		deaths, 0,557.
Madras	Nov. 19-25.	i	1	deaths, 6,000.
Rangoon	Nov. 12-18	7	6	
Java:				
East Java-Soerabaya	Oct. 22-28	1	1	
Palestine:				
Jaría	Nov. 27-Dec. 4	1		
				Nov. 1-15: Cases, 8; deaths, 3.
Lombition	1			
Chepen	Nov. 1-15			Present.
Guadaloupe	do	3	0	
Lima (country)	do	2	0	
Lima (city)	do	1	1	
San Periro	do	9	1	
Trujillo	.do	0	i	
Portugal:				
Lisbon	Nov. 10-29	4	2	
Portuguese West Africa:				
Angola-			1	
Loanda	Oct. 1-28.		27	Fatal cases among white popu-
				lation.
Svria:				
Beirut	Nov. 6-12	2	1	
Purkey:			-	
Constantinople	Nov. 22-28	2		
	SMALI	POX.		
	i	-	1	
Algeria:			1	
Algiers	Dec. 1-10	1		

Algeria: Algiers	Nov. 19-29	5 1	Nov. 26-Dec. 2, 1922: Cases, 2.
Bahia	Nov. 5-11	1	

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¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from July 1 to Dec. 29, 1922, see Public Health Reports for Dec. 29, 1922. The tables of epidemic diseases are terminated semiannually and new tables begun.

Reports Received from December 30, 1922, to January 12, 1923—Continued. SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
British East Africa: Kenya Colony— Tanganyika Territory	Oct. 8-28.	12	2	
Canada: Manitoba—				
Winnipeg Ontario—	Dec. 10-16	1		
Niagara Falls Ottawa	Dec. 3-16 Dec. 10-16	3	********	
Concepcion	Oct. 30-Nov. 20 Oct. 2-Nov. 5		3 51	
China: Antung Hongkong	Nov. 13-23 Nov. 5-11	1	1	
India: Calcutta	Nov. 12-18	1	1	
Madras	Nov. 5-11	8 2	. 2	
West Java— Batavia	Nov. 11-17	21		Province.
Mexico: Chihuahua Nogales	Dec. 4-10 Dec. 10-19		3 1	
Sonora, State	Nov. 1-20	4	1	Nov. 1-30, 1922: Present in north ern section.
Peru: Callao	Nov. 1-15	2	0	
Lima (country) Portugal: Lisbon	Nov. 19-Dec. 2	26	6	
Oporto	Oct. 15-Dec. 2	19	8	
Corunna Seville	Nov. 26-Dec. 2		1 12	
Switzerland:	Nov. 27-Dec. 3 Nov. 26-Dec. 2		*******	
Zurich	Nov. 19-25	6	*******	
Aleppo Turkey: Constantinople	Nov. 19-Dec. 2	24	12	
Tunis:	Dec. 1-8	4.0	1	
On vessel: S. S. Huntress	Nov. 11	1		At Fremantle, Australia, from
o. o. numes				Cape Town, South Africa.
	TYPHUS	FEVE	2.	
Algeria:	Nov. 11-20	1	1	
Brazil: Porto Alegre	Nov. 19-25	1		
	Oct. 17-Nov. 20		4	
Antungzechoslovakia:	Nov. 13-26	5		
Egypt:	Nov. 19-25	1		
Alexandria	do	1	1	Dec. 5-11, 1922: In northern sec
	Oct. 15-Dec. 2	1	1	tion.
Barcelona	Nov. 20-Dec. 6		2	
Constantinople	Nov. 27-Dec. 2	3		
	YELLOW	FEVE	R.	
Senegal:	1	1		
		f		Reported present Dec. 21, 1922.